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Missouri S&T Marketing and Communications Department

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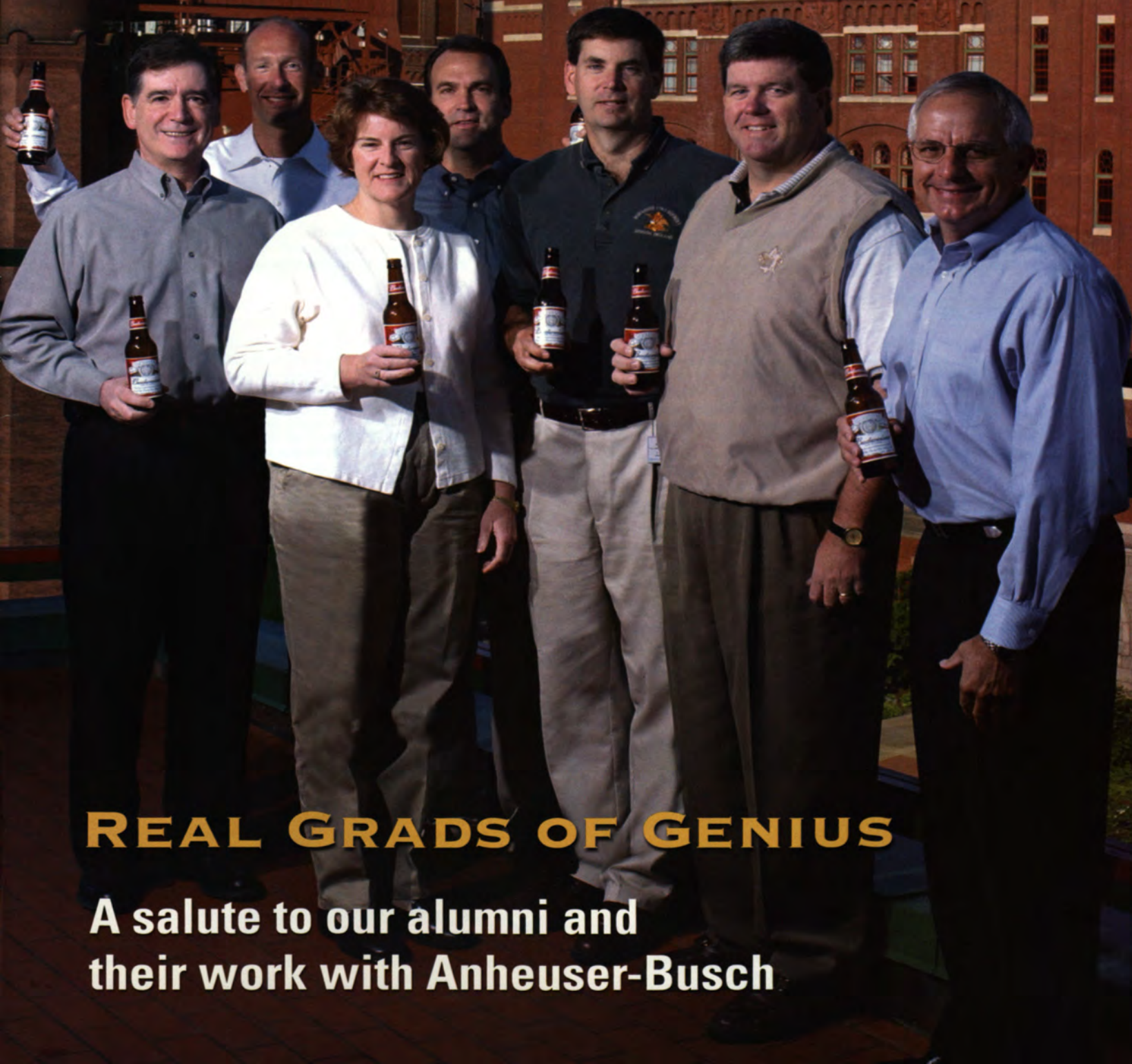
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MSM-UMR ALUMNUS

A PUBLICATION OF THE MSM-UMR ALUMNI ASSOCIATION

SUMMER 2004

VOL. 78, NO. 2



REAL GRADS OF GENIUS

A salute to our alumni and
their work with Anheuser-Busch

MSM-UMR Alumni Association

Representing over 46,000 alumni worldwide

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Letters

Cutting athletic programs

Last year, the UMR golf and tennis teams were eliminated. So far, a suitable explanation as to why the programs were cut has not been presented. The leadership at UMR would like this issue to disappear, but I hope you won't let that happen. The only excuse offered for cutting the programs, the university's budget situation, does not add up.

The UMR athletic budget for 2003-2004 is \$1,091,862. The UMR athletic budget for 2002-2003 was \$990,561. That's an increase of \$101,301 over the past one year. Within that same year, the golf and tennis teams were cut to "save" \$60,000 from the athletic budget. All UMR athletic programs could have been supplemented with the extra \$101,301. There was no need to cut golf and tennis.

Student fees revenues have increased by 47.1 percent (up \$13.8 million) from 2001 to 2004. State appropriations have decreased by 14.5 percent (down \$7.3 million) from 2001 to 2004. That's a net increase of \$6.5 million coming into the university over the past four years, an average growth rate of 3.3 percent per year. The average rate of inflation from 2000-2003 was roughly 2.5 percent. UMR has increased its revenue, outpacing inflation, in the face of decreasing state appropriations through increases in enrollment and fees.

Seven students are not attending UMR this year because the golf team was cut. Seven students will not have the experience that you and I had at UMR. From my experiences, the cost of losing students is too expensive to justify cutting the golf and tennis programs.

Andy Laegeler, Chem'01, BioSci'01, Houston, Texas
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ON THE COVER: Philip Colombatto, CE'71, MS EMgt'76, vice president for quality assurance; Keith Wesselschmidt, CE'80, senior manager of manufacturing analysis; Sue Simmons, ChE'84, senior resident engineer; Tim Viox, ME'87, corporate director of rides, engineering and maintenance support; Jeff Steinhart, EMgt'79, vice president, engineering; Jeff Pitts, ME'80, senior plant manager; and Mike Meyer, ME'75, senior director, brewing process. Photo by A-B Photographer Phil Shoulberg.

Editor's note: UMR periodically reviews its athletic programs to help assess whether they are meeting their goals and whether their goals remain appropriate for UMR. These studies are carried out by a committee of faculty, staff, students and alumni. An unfortunate reality facing the most recent self-study group was that the department of athletics faced growing costs to maintain existing programs. The committee reluctantly suggested the administration consider eliminating sports that were serving fewer participants in order to avoid reductions to programs that have large numbers of participants or attract spectators. The athletics budget is made up of funds coming from many sources and with various restrictions. The resources required to support an athletic program cannot be measured in simple dollars-and-cents terms. UMR's discontinuation of the golf and tennis teams is part of a clear trend among college athletic programs to reduce or eliminate so-called "non-revenue" sports in the face of resource restraints.

New frontiers

As I looked at the cover of the MSM-UMR *Alumnus* spring issue that arrived today, I guessed correctly that it had a Lewis and Clark bicentennial theme. That was confirmed when I read Editor Marianne Ward's "From the Editor's Desk." I particularly liked the dedication to Gov. Mel Carnahan and the editor's closing paragraph. It was also fun to discover that blue highlighted Alumni Note on page 35. It was indeed an honor to be in the same issue as those five modern-day explorers of new frontiers.

Bill Stine, EE'64, Jefferson City, Mo.

MSM-UMR ALUMNUS

The MSM-UMR Alumni Association publishes the *MSM-UMR Alumnus* to communicate and reflect the past, current and future interests of the alumni of the Missouri School of Mines and the University of Missouri-Rolla.

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ANDREW CAREAGA
News & Features Editor

From the Editor's Desk

While Missouri lawmakers were expanding the University of Missouri's land grant mission to create a new "school of mines" in Rolla in 1870, a small brewery in St. Louis was building a new facility to expand its production to 18,000 barrels of beer a year. E. Anheuser & Co. has since grown to become one of the most famous names in the beer business. Today, it's also the world's leading brewmaker. In 2003, Anheuser-Busch sold 111 million barrels of suds worldwide. That translates into 3.44 billion gallons of beer — or, if all that brew were bottled (sing with me now), 36,693,333,333 12-ounce bottles of beer on the wall.

No one knows for certain just how far back the connection between A-B and UMR extends. But the two institutions more or less grew up together. Both were born at the onset of the Industrial Revolution. And given many college students' penchant for beer and the close proximity of St. Louis to Rolla, it's conceivable that some of MSM's earliest students may have enjoyed some of the local brewery's product between studies. Moreover, given the beer industry's continuing need for engineering know-how, it makes sense that A-B would have a strong relationship with the campus.

*Some 200 UMR graduates now work for A-B, making the world's largest beer company also one of the largest employers of alumni. Two of the company's vice presidents are UMR graduates (one of them is the first UMR grad to become a brewmaster), and several other alumni are helping produce the world's best-selling beer at all levels of production. This issue of the *Alumnus* profiles several of those UMR graduates.*

So, next time you pop open an A-B product, lift a toast to your fellow alumni who help bring the "king of beers" to you.

CORRECTION:

The image of the Neuschwanstein castle included in the "Miner Tours" promotion on the back cover of the spring 2004 issue was mistakenly identified as being located in Switzerland. The Neuschwanstein castle is actually located in Germany.



Photo by A-B Photographer Phil Shoulberg

REAL GRADS OF GENIUS? TRUE.

You've no doubt seen those cheesy Bud Light "Real Men of Genius" television ads — tongue-in-cheek tributes to guys who wear way too much cologne or really bad toupees. On a slightly more serious note, we offer you "Real Grads of Genius," our tribute to several of the UMR alumni who work for the world's largest beer maker.

Anheuser-Busch Inc. — makers of Bud Light, Budweiser and the Atkins-friendly Michelob Ultra, among other products — employs nearly 200 UMR graduates worldwide. While many of them work in various aspects of engineering and management, from brewery operations to package design to global planning, several play roles not always associated with brewing. One is the director of rides and entertainment for A-B's popular theme parks (three SeaWorlds, two Busch Gardens and

four other tourist destinations), while another was probably the only civil engineer to ever become a brand manager, a role usually reserved for MBAs. (Turns out our CE grad also had an MBA, which didn't hurt.) Yet another is a former brewmaster for A-B's historic St. Louis brewery — and the only UMR grad to date to earn that coveted distinction. Another is vice president of engineering for the global corporation.

The profiles that follow offer but a glimpse of the many ways UMR alumni contribute to making A-B the global leader in brewing. So, turn the page, pop a top if you're so inclined, and say with us, in deep voice-over, "Here's to you, Mr. and Ms. UMR grad and Anheuser-Busch employee."

BREWING UP QUALITY

by Andrew Careaga (acareaga@umr.edu)

If your idea of the typical brewmaster is that of a mustached, Teutonic old fellow sipping ale from a stein, then you're likely to feel a bit let down upon first meeting **Philip J. Colombatto**, CE'71, MS EMgt'76. One look at Colombatto will tell you that he does not fit the stereotype.

Colombatto, Anheuser-Busch's vice president for quality assurance since 1994, is a former brewmaster for A-B's St. Louis brewery. He also was the first — and so far only — UMR graduate to hold that distinction. "I may be the first," he says, "but I doubt I'll be the last."

The move to VP for QA was a natural progression for Colombatto. After all, a brewmaster's job is to assure that the product is of the highest quality. "You're responsible for the flavor quality of the beer, from raw materials to packaging, so you're involved in the entire process," he says. "You're constantly focusing on the flavor quality, but you're also concerned with the entire operation, working with engineers on design and capital expansion, capital modernization — all of these things."

In other words — and we're sorry if this comes as a letdown to wannabe brewmasters — there's more to the job than quaffing suds. "You don't just sit around drinking beer all day," Colombatto says. "Tasting is an extremely important part of the job, but from a time perspective it's relatively small."

After earning his bachelor's degree from UMR, Colombatto began his career dealing with fluids of a different kind as a civil engineer for the Los Angeles County Flood Control District. After three years in that field, however, Colombatto returned to UMR for graduate school. For one management course, he had to do a financial analysis of a company, and he picked A-B. "In doing that analysis, I really learned a lot about the company and thought it would be a good place to work." He also was working at UMR's placement and cooperative education center (now the Career Opportunities Center) and did his best to woo A-B recruiters any time they visited the office. "I hit them pretty hard every time they walked in the door," he says.

Colombatto landed a job with what was then called the management sciences department of A-B's management systems division. His task was "to rewrite a model that allocates our production to breweries based on transportation and other issues," but he was quickly

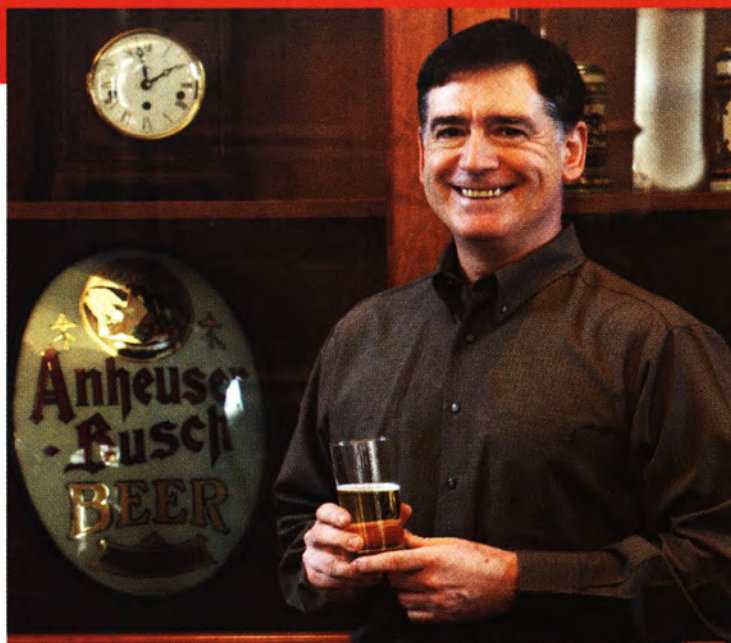


Photo by A-B Photographer Phil Shoulberg

'To make a Budweiser in Los Angeles or Wuhan, China, taste like a Budweiser in St. Louis is quite a challenge.' -Colombatto

reassigned "to produce a model of the brewing process." During that three-year project, Colombatto worked closely with brewmasters to learn about the process. From there, he started working in the corporate brewing department as an analyst, then held a variety of positions in corporate brewing and brewing operations.

Under the tutelage of Gerhard A. Kraemer — a name befitting a proper brewmaster — Colombatto learned the brewmaster's art during a time of dramatic change in A-B's brewing operations. The company was incorporating more technology into the operations, and wanted to use more technology in all processes, including brewmastering.

"Historically, brewmasters were taught from the ranks, in sort of an apprenticeship," he notes. A-B would bring in technical experts from Europe to guide and work with up-and-coming brewmasters. Kraemer was an Old World brewmaster, with a degree in brewing engineering from the University of Munich.

But Colombatto became part of brewing's evolution to more technical brewery management when he became brewmaster in 1991. He held the position until 1994, when he became vice president for quality assurance.

Given Colombatto's experience as a brewmaster, the move was a natural progression. Just as the brewmaster's job is more complex than sampling beer day in and day out, so too is the VP for QA position.

A taste for the job

Okay, so brewmasters don't spend all day drinking beer. But tasting is an important part of the job. And it is serious, scientific business.

"Tasting beer is like learning a new language," says former assistant brewmaster **Kristopher Scholl**, ChE'98. Anheuser-Busch provides on-the-job training in the art of tasting and Scholl has been learning from the masters.

Researchers have identified more than 2,000 different flavor compounds in beer, says former Anheuser-Busch brewmaster **Philip J. Colombatto**, CE'71, MS EMgt'76. "Everybody has different sensitivities" to those compounds, he adds. "I'm more sensitive to certain compounds than to others. As I get older that changes, because my physiology changes."

"It's a sensory thing," adds Scholl. "After you taste for a number of years, you develop a good sense of what the profile needs to be." For example, if a Bud Light, a Miller Lite and a Coors Light are sitting on a table, trained A-B tasters will be able to tell the difference — in fact,



they can tell from the color and the foam which is the Bud Light, without ever taking a sip. "Bud Light is usually the lightest of the three," Scholl explains.

"Not everyone's taste buds are the same," says senior assistant brewmaster **Greg Suellentrop**, ChE'88. "So what I may think is an excellent beer, you might disagree with, based on your own personal tastes." That's why tasting is never done individually, but by a panel of experts. "It's a group decision. That's how we balance the issue of personal preference," Suellentrop says.

A-B and other breweries use "taste panels" to gauge a product's flavors. Each panel consists of five or six people with different sensitivities. Beer aficionados with sensitive palates need not apply. "We don't go out and get people who are overly sensitive to bitterness, for example, because that's not what the public is," Colombatto says.

A-B's beer-testers are on the lookout for many different characteristics, including:

Amplitude. "What you tend to look for is a balance. You don't consciously think of that," says Colombatto. Specifically, it involves something called "amplitude": "You want the flavor to build and then not much aftertaste, like a wave."

Aroma. Different beers should have different aromatic qualities, Colombatto says. "One beer may have a little more hop character, which might be a little bit fruity or a little bit floral." Michelob products should have more malt character than Budweiser or Bud Light.

Mouth feel. "We check to see if it dries out the mouth," Colombatto says. "Is it astringent?" If so, it "impacts drinkability." For Colombatto's taste buds, make it a Bud. "It all comes back to Budweiser for me," he says. "I'll always drink Budweiser to calibrate where I am."

Scholl's favorite product? "It depends," he says. "For a dark beer, I'd pick Amber Bock. For light, I'd pick either Michelob Ultra or Bud Light. Budweiser is great with meals."

A-B lists more than 400 separate procedures for analyzing the quality of everything from water and other raw materials (the hops, rice, barley and other ingredients) to the beer in process and the packaged final product. Analytical techniques include the latest in gas and liquid chromatography, flow analysis and atomic absorption, as well as microbiological evaluation. QA even involves such procedures as inspecting the color of labels, "mobility testing" of packaging in the assembly lines and, yes, sampling the product for what Colombatto calls "drinkability."

"To make the same beer in 12 U.S. and 20 international brewing and packaging locations is extremely difficult," Colombatto explains. "To make a Budweiser in Los Angeles or Wuhan, China, taste like a Budweiser in St. Louis is quite a challenge."

A-B produces about 30 billion packages of beer a year — from quarter-barrel kegs to 12-ounce cans. "The consumer gets them one at a time, so every single

one of these packages can either delight our customers or make them say, 'I'm not willing to spend my money on your brand' and go do something else with their money."

According to Colombatto, quality is of paramount importance to the company. That's one reason he reports directly to the president of A-B Inc., August A. Busch IV.

For a QA department to be effective, in Colombatto's view, "you can't just be the auditor or policeman. We truly want to be a process improvement leader. Not *the* process improvement leader but *a* process improvement leader, along with the brewing and operations departments."

And along with that role of process improvement, Colombatto still gets to sample the product on a regular basis. He's a member of A-B's corporate taste panel but also heads up QA's own group of taste-testers.



Taste-testers Kristopher Scholl, Philip Colombatto and Greg Suellentrop.

A MATTER OF TASTE

by Mary Helen Stoltz (mhstoltz@umr.edu)
photos by A-B Photographer Phil Shoulberg

Every afternoon, Anheuser-Busch corporate leaders meet members of the brewing area staff on the top floor of the historic Brewhouse at the corner of Ninth and Pestalozzi streets to taste beer. No, it isn't happy hour. It's serious business.

The corporation's key tasters are there to rank beer samples from each of A-B's domestic and international breweries, looking for subtle changes in taste from one beer to the next. This thoroughness is what makes the Budweiser you drink in China taste exactly the same as the one you drink in St. Louis.

In the offices below, still a couple of floors up from the route the brewery tour follows, **Greg Suellentrop**, ChE'88, can hear the roar of the brewing process in the background while he works.

Suellentrop feels fortunate to be here because A-B is the only place he ever wanted to work. "I like working for Anheuser-Busch because the main concern in the brewing department is quality. I know we're putting out a quality product because we talk about it every day," he says. It's also a matter of family tradition. The youngest of eight children (five of whom graduated from UMR), Suellentrop's father, uncle and a cousin all had careers with A-B.

As senior assistant brewmaster, Suellentrop works closely with the resident brewmaster. "Our whole day is built around checking the quality."



Touch is just one of the senses used when examining the key ingredients that go into the beer process.

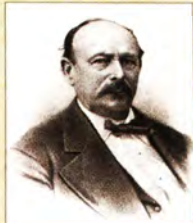
Between 60 and 65 brews are made each day. Each brew, or batch, consists of 560 barrels (each barrel is 31 gallons) of wort, or unfermented beer. The process involves several vessels, numerous pumps, all kinds of agitators and gear boxes, and more than 8,000 valves.

"It's a big place," Suellentrop says of the brewery. "One individual can't walk the entire place. That's why we rely so much on our assistant brewmasters and the managers who are on shift. They're the eyes and ears out there watching what's going on."

Down the hall from Suellentrop's office is one set of those eyes and ears. That sound of stirring mechanisms

Timeline

1860



Eberhard Anheuser acquires Bavarian Brewery in St. Louis; renames it E. Anheuser & Co.



1864



Adolphus Busch began working at E. Anheuser & Co.

1870



University of Missouri School of Mines and Metallurgy established in Rolla.

1879

E. Anheuser & Co. renamed Anheuser-Busch Brewing Association.





Kristopher Scholl

Jim Bicklein

Will Allen

Greg Suellentrop

'Our whole day is built around checking the quality.' -Suellentrop

inside the giant mash cookers on the floors below is just one step in the Brewhouse processes that **Jim Bicklein**, EE'87, manages as assistant brewmaster. He is responsible for everything from the raw materials to the stage when the wort leaves to begin the fermentation process, to sampling and tasting the product from start to finish.

On the bookshelf in Bicklein's office is a recent sample of hops. Jars of six-row and two-row malt sit on the table by the window. Bicklein evaluates these, as well as samples of rice and corn grits as they arrive daily, feeling and smelling them all. "I enjoy the brewing process and using all of my five senses to do my job," Bicklein says.

"Anheuser-Busch's unrelenting strive for quality makes my job fun," he says. "We accept nothing but the best, so it's kind of nice to come to work knowing you're looking for the best of the best."

A-B's daily tastings wouldn't be possible without the organizational efforts of **Will Allen**, ChE'97, executive assistant to the vice president of corporate brewing. One of his main responsibilities is setting up the panel for A-B's key tasters.

"It is important that they taste the set blind," Allen says. "We receive the beer shipped from all of the

breweries each week, organize them, and keep them stored at the proper temperature." He makes sure each glass contains the same exact beer, warmed to the proper taste temperature when the group is ready. He also arrives at the tasting armed with analytical data on each beer sampled, so that any question of taste that may arise may be promptly answered.

Allen says he enjoys putting the skills he gained at UMR to work at A-B, helping to produce a well-known product that is enjoyed by so many people. "My chemical engineering background is exercised here," Allen says, "and all of us share pride in our jobs and get a lot of self-satisfaction in producing a number one product."

"The taste of the beer is why we're here," says **Kristopher Scholl**, ChE'98, staff associate to the director of brewing at A-B. "If we didn't have a good product, the company wouldn't exist. Our dedication to quality is what makes the beer taste the way it does."

Scholl spent time on the company's engineering side, but his heart lies in brewing — not only because it's fun to make beer. "Brewing beer is not rocket science," he says. "Man has been brewing beer since 6,000 B.C., but being able to apply engineering and technology to an

(continued on page 8)

1901



Anheuser-Busch breaks the million-barrel mark for the first time.

1908



MSM's St. Pat's tradition begins.

1915



Missouri Miner student newspaper begins publication.

1920



Prohibition begins: A-B ceases beer production but branches out with new products, including ice cream (1920), ginger ale (1921), root beer (1921) and Kaffo, a carbonated coffee beverage.

1921

MSM Alumni Association forms.



Making beer is more than just a job for Jim Bicklein, Greg Suellentrop, Will Allen and Kristopher Scholl.

A MATTER OF TASTE *(continued)*

old process to make it more consistent and repeatable is something I really feel I help bring to Anheuser-Busch."

Lined up across the top of a bookcase housing Kristopher Scholl's chemical engineering texts and company manuals sits a row of beer cans he gathered during his co-op days. The collection, which includes a 1950s steel Budweiser can that required a can opener, serves as a reminder that it is A-B's focus on quality that makes Budweiser the "king of beers."

That focus on quality is rewarding for A-B's brewers, but it isn't the only reason they work for the world's largest brewer. Perhaps Greg Suellentrop sums it up best. "It's a great place to work. We put out the best beer in the world and it's a lot of fun. Making beer has got to be more fun than any other job."

(Note: Since this article was written, Will Allen has taken a new assignment as assistant brewmaster in corporate raw materials.)

NETWORKING A CAREER

by Andrew Careaga (acareaga@umr.edu)

Job-seeking students, take note: Meeting UMR alumni at a career fair can be a good career move, even if the encounter doesn't lead to immediate employment.

When **Sue Simmons**, ChE'84, was a student, she met **Joe Abernathy**, ME'77, during one of those career fairs on campus. Abernathy was there to recruit for Anheuser-Busch, a company Simmons hoped to work for. After all, like most St. Louis natives, Simmons was well acquainted with the beermaker. "The company has a rich tradition," she says, and "most people in St. Louis know someone who works for Anheuser-Busch."

Unfortunately for Simmons, A-B wasn't hiring chemical engineers at the time. So after graduation, she took a job with Monsanto, working just across the river from St. Louis in Sauget, Ill. She kept in touch with Abernathy, however, and contacted him a couple of years later when she was looking to make a career change. That contact led to an interview and she got the job. "Joe helped open the door for me," she says.

Now senior resident engineer for A-B's St. Louis brewery, Simmons has been with the corporation for 18 years, 16 of them in corporate engineering. During those 16 years, she helped expand and upgrade facilities at each of A-B's dozen U.S. breweries, the London brewery and a Japanese brewery that produces Budweiser for A-B under a licensing agreement. She then moved over to the St. Louis brewery, where she served as a senior process support manager of brewing for a year, then senior manager of utilities for

Timeline

1933



First team of Budweiser Clydesdales thunders down Pestalozzi Street in St. Louis with the first case of post-Prohibition beer from the St. Louis brewery.

1941



A-B produces three million barrels of beer.

1964



MSM becomes the University of Missouri-Rolla.

1967

St. Louis brewery becomes the first brewery in the United States to be dedicated as a Registered National Historic Landmark.



six months. Earlier this year, Simmons took her current job at the brewery. She's now responsible for the brewery's utilities operations, as well as capital planning and project execution efforts. The utilities operations include the steam generation with coal-fired boilers, electrical power co-generation, water treatment, refrigeration and carbon dioxide processing.

One of the biggest challenges Simmons faces in her new position involves getting the most out of the plant's infrastructure. "This is an aging brewery," Simmons explains. "Some of our utility equipment is older. We're challenged to provide the best operations we can for our customers within the brewery."

Adjusting to a different organizational culture was also a challenge for Simmons. Working in the brewery brings her in contact with more hourly employees than when she was on the corporate side of things. "I spent 16 years in a corporate operation that was very fast-paced but also very different," she says. "In the breweries, we work with our talented hourly workforce, treating them with respect and working together to improve our operations for the future."

Simmons' move from the corporate arena to the company's oldest and most famous brewery reflects A-B's goal of encouraging employees to advance along new career paths. The company promotes job moves among the three areas known as BOT — brewery, operations and technology. No matter where she's found



Networking helped Sue Simmons launch her career with A-B.

'It's a challenging, dynamic organization, very fast-paced.'

- Simmons

herself within the organization, she's always found opportunities to do well. "It's a challenging, dynamic organization, very fast-paced," Simmons says. "Every day I learn something new. Every day I'm faced with a new challenge."

Also involved with UMR, Simmons recently completed a six-year term as A-B's representative on the campus' Corporate Development Council, an advisory group. She also sits on the Chemical Engineering Advisory Council, and returns frequently to recruit at UMR career fairs. "I enjoy recruiting on campus. It's always refreshing to go back and meet the students." Perhaps like Abernathy before her, Simmons too has influenced a UMR student to consider a career with A-B.

1991



Philip J. Colombatto, CE'71, MS EMgt'76, becomes first UMR graduate to be named an A-B brewmaster. Colombatto serves as brewmaster at the St. Louis brewery through 1994.

2002

A-B establishes \$250,000 scholarship for UMR engineering students.

2003



A-B produces 111 million barrels of beer worldwide.

2004



Budweiser Clydesdales return to march in St. Pat's parade for first time since the 1980s.

Grads of Genius

MORE THAN CHEF'S SALAD ON HIS PLATE

by Andrew Careaga (acareaga@umr.edu)



VP of Engineering Jeff Steinhart, center, reviews building plans.

In the conference room adjoining his office suite in Anheuser-Busch's Old School House Building in St. Louis, **Jeff Steinhart**, EMgt'79, methodically spears his take-out chef's salad during a quick lunch with two visitors. He's spent the morning preparing for an upcoming meeting with A-B's board of directors.

As A-B Inc.'s vice president of engineering, Steinhart is called upon to pitch a number of ideas to the board. Among the items on his plate for the board meeting:

- A plan to roll out a new look for Bud Light bottles. For the past year, the company has tested the use of an applied plastic label instead of the paper label in markets in the northeast United States. Now, Steinhart says, the company plans to put the new label on all Bud Light bottles by next summer.

- An expansion of A-B's brewery in Wuhan, China. Budweiser is the leading high-end premium beer in China and production reached a record 2 million barrels in 2003. Following four consecutive years of strong sales, a major expansion is under way at the Budweiser Wuhan International Brewery that will increase capacity to 2.7 million barrels by late 2004.

- Plans to "improve asset utilization" and modernize A-B breweries in the United States.

- The toughest sales pitch on Steinhart's agenda — what he calls "the hardest thing to get presented" to the board because it yields no immediate bottom-line benefits: plans for a new office building for A-B's engineering division.

Juggling these multiple projects is all in a day's work for Steinhart, one of two UMR graduates who hold VP titles at the company. Overseeing all engineering for the corporation involves much more than typical "engineering" work, Steinhart explains. His decisions and input influence many other aspects of the

'The first thing you have to get used to is, you can't be hands-on anymore. You've got to be 100 percent management.'

-Steinhart

corporation — from decisions on packaging (as in the case of the applied plastic label rollout) to sales and marketing (the U.S. plant expansions), globalization (the China plant expansion), environmental issues (new regulatory issues), and personnel and productivity (the new office space for engineering staff).

"You're never wanting for something to do here," he says. "If you are, there's something wrong."

A member of the A-B staff since 1982, Steinhart was named A-B's VP for engineering in 2002. He joined A-B's estimating group after a couple of years as a cost engineer with Monsanto, and quickly found a leading role in the organization. "In the estimating group, you get involved in everything that goes on in a project," Steinhart says. His work gained him notice, and later, he formed the corporation's planning group, where he worked closely with his predecessor.

Steinhart logged plenty of time presenting ideas to various committees and boards within the organization. "That gave me a lot of exposure," he says. When the former vice president retired, Steinhart became the first UMR graduate to ascend to the VP of engineering role. Between bites of salad, Steinhart describes the job in typical managerial terms. It involves "continuous change" and "new challenges." "The job is never boring," he says. But it has less to do with nitty-gritty engineering than with setting strategy and planning.

The power of partnership



Celebrating the power of partnership: UMR graduates who work for Anheuser-Busch enjoy a luncheon (above) and presentations (inset) with UMR representatives.

Approximately 100 UMR graduates who work for Anheuser-Busch turned out to "celebrate the power of partnership" with representatives from their alma mater on Feb. 6 at A-B's St. Louis headquarters. The luncheon for A-B employees and UMR representatives, hosted by A-B, was followed by presentations by **Jeff Steinhart**, EMgt'79, A-B vice president of engineering; UMR Chancellor **Gary Thomas** and UMR Vice Provost for Research and Sponsored Programs **Wayne Huebner**, CerE'82, PhD CerE'87.

During his presentation, Steinhart pointed out that nearly 200 UMR alumni are employed by A-B, and that the company has been on UMR's top 10 list of employers of graduates for four of the past five years. In addition, Steinhart noted A-B's strong relationship with UMR's cooperative education program. During the past four years, A-B has hired 86 co-op students, making it the top employer of UMR co-op students.



Jeff Steinhart



Mark Viox, left, shakes hands with Chancellor Gary Thomas as Jeff Steinhart looks on.



Mike Elli, Jada Reese and Glenn Phegley visit during the partnership celebration.

Other A-B ties to campus addressed by Steinhart include:

- A-B sponsorship of senior design projects on campus and staff involvement in reviewing those projects.
- Representation on UMR's Corporate Development Council since 1994.
- Membership of A-B staff on several departmental/school academies and department and campus advisory councils.
- A \$250,000 scholarship endowment for students majoring in chemical, civil, computer, electrical or mechanical engineering, or engineering management.

Photos courtesy of Anheuser-Busch

"The first thing you have to get used to is, you can't be hands-on anymore," he says. "You've got to be 100 percent management."

Steinhart's latest challenge involves honing his Chinese language skills. He travels to A-B's Wuhan, China, brewery three or four times a year, and as he's learned from these 15-hour flights: "One thing we're not very good at as a country is emphasizing the need to learn two languages."

But Steinhart relishes the chance to continue his education. That kind of agility seems to be second nature to him, and he promotes the idea of employees continuously exploring new opportunities. "One of our missions is to push cross-functionality and provide multiple career opportunities," says Steinhart, "so you don't get stuck in a rut for 20 years doing the same thing, so you'll have the opportunity to broaden your career if you want to."

FIGHTING THE BATTLE OF THE BRANDS

by Andrew Careaga (acareaga@umr.edu)

In the battle for market share, brand managers are the field marshals. They study the battlefield terrain, assess the strengths of their competitors, plot marketing strategies and determine how best to capture consumers' loyalty and dollars. Most come armed with MBAs in marketing or finance. Not many have a background in civil engineering.

Perhaps they should. For **Keith Wesselschmidt**, CE'80, a technical background didn't hinder his four-year tenure as a brand manager for A-B Inc. Now senior manager of manufacturing analysis for A-B Inc., Wesselschmidt holds the distinction of most likely being the only UMR CE grad to help fight the battle of the brands.

He didn't set out to become a brand manager. Life after college for the Kansas City, Mo., native began in typical CE fashion, as a structural engineer for Marley Cooling Co. in the Kansas City suburb of Mission, Kan. Testing new concrete beam designs in a limestone cave by day, he also enrolled in a master's of business



Photo by A-B Photographer Phil Shoulberg

As a brand manager, Keith Wesselschmidt has helped launch numerous brands, including products like the non-alcoholic 180 energy drink.

'A lot of the high-end consumers don't want to drink a brand that everyone else is drinking. They want to have a brand that they can call their own.'

-Wesselschmidt

administration program. "Everybody told me that's a great combination, engineering and an MBA."

The combination has worked out for Wesselschmidt and A-B. He joined A-B as an engineering analyst in 1984, but soon moved into corporate financial planning, where he put his newly minted MBA in finance to work creating five-year financial plans for A-B and its competitors. "It really gave me an overview of the whole beer industry," he says. "It also helped when assessing whether one of our competitors might be getting into financial trouble."

In 1999, Wesselschmidt learned about A-B's plans to expand its presence among "high-end" products, where the Michelob line jockeys for market share with Heineken, Samuel Adams and others. He expressed his interest in this new direction, and was hired "to work with

all the high-end brand managers and directors creating tools that supported all of the brands."

In the process, Wesselschmidt became a brand manager himself. He helped to launch specialty products like Tequiza, a lager beer with tequila and lime flavors, and Red Label from Budweiser, which preceded A-B's newest high-end product, Anheuser World Select. Tested

A horse is a horse, of course, of course

The 2004 St. Pat's parade truly was the "Best Ever" — or at least the best since the mid-1980s. That's the last time the Budweiser Clydesdales marched down Pine Street. This year, thanks to the help of **Jeff Steinhart**, EMgt'79, they visited UMR once again, drawing a crowd to the parade route. Perhaps the most recognizable symbol of the brewing giant, these horses have an interesting background. Here are a few facts:

- At birth, the average Clydesdale foal weighs 130 pounds. Fully grown, they weigh between 2,000 and 2,300 pounds.
- Each day, a working Clydesdale will eat about 50 pounds of hay, 20-25 quarts of grain and consume about 30 gallons of water.
- Clydesdales, first brought to the U.S. as draft horses in the mid-1800s by Canadians of Scottish heritage, are descendants of the Great Flemish Horse, a 19th century breed of draft horses bred along the River Clyde in Lanarkshire, Scotland. They were capable of pulling more than a ton at a walking speed of five miles per hour.
- The first team of Budweiser Clydesdales was a gift given to August A. Busch Sr. by his son to celebrate the repeal of Prohibition on April 7, 1933.



- To commemorate the special day, August A. Busch Jr. sent the team thundering down Pestalozzi Street in St. Louis carrying the first case of post-Prohibition beer from the St. Louis brewery.
- St. Louis is home to one of five Clydesdale hitches, each consisting of eight horses.

- Anheuser-Busch maintains the largest purebred Clydesdale herd — about 250 horses — in the world. About 30-35 foals are born each year at the company's two breeding locations in St. Louis and Menifee, Calif.
- Each Budweiser Clydesdale harness is handmade from brass and leather and stitched with pure linen. Each weighs approximately 130 pounds and costs approximately \$10,000.
- Made from a 22-inch bar of steel, Clydesdale horseshoes are twice the size and five times the weight of an ordinary horseshoe. The Budweiser Clydesdales are re-shoed every five weeks.

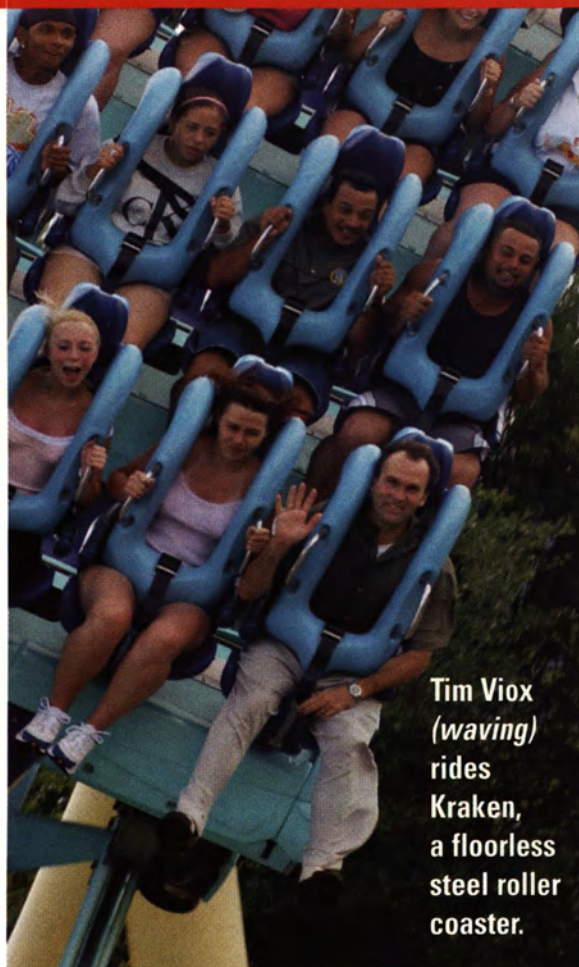
Photos courtesy of Anheuser-Busch

only in certain high-end markets — Buenos Aires, Hong Kong, London, New York and Rome — Red Label from Budweiser was designed to appeal to the fragmented market of specialty beer drinkers. "A lot of the high-end consumers don't want to drink a brand that everyone else is drinking," Wesselschmidt notes. "They want to have a brand that they can call their own. They also want to try different things."

While a brand manager, Wesselschmidt also was involved in developing a low-carbohydrate beer, the predecessor to A-B's wildly popular Michelob Ultra. "We actually created a low-carb brand about a year before Michelob Ultra came out" in 2002, he says. "The company decided not to pull the trigger on it. It turned out that was the right move. Putting the Michelob name on it has revitalized the whole Michelob family."

Wesselschmidt also helped launch non-alcoholic products, such as 180 energy drink and the "enhanced water beverage" 180 Sport. And while his career didn't make a total 180 when he moved from the trenches of engineering to the battlefield strategist position of brand management, Wesselschmidt moved up the corporate echelons in January, becoming A-B's senior manager of manufacturing analysis. In this new role, he keeps tabs on the productivity of A-B's breweries and other long-term planning items.

Though far removed from his days as a structural engineer, Wesselschmidt hasn't lost his interest in the applied side of engineering. "The other day I spent a day in the brew house and we got below the brew kettles — it was awesome, just seeing how it was all laid out, with all those pipes, pumps and valves."



Tim Viox
(waving)
rides
Kraken,
a floorless
steel roller
coaster.

LET HIM ENTERTAIN YOU

by Mary Helen Stoltz (mhstoltz@umr.edu)
photos by Chris Gotshall/SeaWorld Photo

Like most kids, **Tim Viox**, ME'87, loved amusement parks. He would wiggle his way to the front of the line before the gate opened, then run straight to the bumper cars to see how many times he could ride before a line started forming.

Today Viox still rides amusement park attractions every chance he gets. But now he rides for business, as well as pleasure. And he's usually a little more patient in line.

In 2001, Viox was named corporate director of rides engineering and maintenance support for Busch Entertainment Corp., (BEC) a subsidiary of Anheuser-Busch.

BEC operates nine theme parks across the United States: SeaWorld parks in Florida, California and Texas; Busch Gardens parks in Florida and Virginia; Sesame Place outside of Philadelphia (primarily a children's water park themed around the Sesame Street characters); Discovery Cove in Orlando, Fla. (an interactive water park with such attractions as snorkeling opportunities and a swim-with-the-dolphins program), and water parks Adventure Island in Tampa, Fla., and Water Country U.S.A. in Williamsburg, Va.

Thrills and chills

Of all the rides in the world to choose from, which are Viox's favorites?



Journey to Atlantis

(SeaWorld, Orlando, Fla.)

More unusual than your average flume ride, this water coaster features an

eight-passenger boat led by a mermaid. When she turns into an evil sea witch, a golden seahorse named Hermes leads passengers to safety.

The ride begins with some show elements in a dark ride atmosphere, then emerges into a normal flume-type drop. Hidden on the back side of the building is a regular roller coaster drop. "It's a little bit of an element of surprise for the guests," Viox says. "They get taken back up into the building thinking they're done, then put onto a roller coaster track."

This ride was a prototype, Viox says. "This was the first time anything like this had been done." A similar version of Journey to Atlantis opened at SeaWorld in San Diego in May.



Rhino Rally

(Busch Gardens, Tampa, Fla.)

The ride begins with a safari through different animal exhibits in modified Land Rovers that seat 17. Passengers get a

Journey to Atlantis:

Tim Viox with his wife, Shari, and daughter, Cassidy.



"I thrive on change," says Viox, who has worked in nearly every A-B subsidiary during his 12-year career with the company. "I probably would have been happy running brewery projects all my life, but not as happy as having the opportunity to work in so many different areas."

Viox's switch to theme parks with more than 20 million annual visitors required a bit of training and a new mind set. Safety is a key element.

When maintenance personnel and operators are trained, BEC instills in them the importance of safety. "When I'm working on a ride, before I turn it over to the public I ask myself, 'Would I put my daughter on this ride?'" says Viox, the father of a 4-year-old girl, Cassidy. "It's understood that we're putting the public on the rides and there will be no shortcuts taken."

By the time any human being gets on a ride, it has endured months of testing — from both the ride manufacturer and BEC staff. "We won't open a ride until we're 100 percent comfortable that everything has been done properly. In addition, we perform

comprehensive daily, weekly, monthly and annual preventative maintenance." Daily maintenance checks on some of BEC's more complicated rides start before 4 a.m. to have the ride open by 9 a.m.

Prior to his current corporate position, Viox was project manager at SeaWorld in Orlando. While there, he oversaw the installation of two major rides, Kraken and Journey to Atlantis. Kraken, a floorless steel roller coaster, begins with a 140-foot drop then carries passengers through seven inversions that turn them upside down through a series of loops and rolls. A little more than 4,000 lineal feet from start to finish, the ride lasts a little more than two minutes. (*For more on rides, see the "Thrills and chills" article below.*)

An industry mentor once told Viox that people who get into the leisure industry seldom leave, and Viox says it's true. "It's a tight industry and once you get into it, there are so many sources of satisfaction that it's tough to imagine working in a different industry. What other positions are out there for an engineer that involve as much fun?"

close-up view of cape buffalo, elephants and rhinoceroses, then ride through some water that features Nile crocodiles. The Land Rover then connects to a platform that rides on a roller coaster track. "The ride is set up to simulate that a bridge you cross has broken loose and you're free-floating down the river," Viox says. "You crash into another bridge at the end of the ride, which allows the vehicle to drive back up on land." To add to the realism, the outside rail of the coaster track undulates up and down, while the inner rail stays at a constant elevation, giving the vehicle a rocking motion.



Apollo's Chariot

(Busch Gardens, Williamsburg, Va.)

When Viox is craving a thrill, he turns to his all-time favorite coaster. This steel hyper coaster,

based on the sun god in Greek mythology, has no inversions, but takes passengers through nine drops—including one of more than 200 feet.

A-B Adventure Parks

CALIFORNIA

SeaWorld San Diego

FLORIDA

SeaWorld Orlando
Discovery Cove
Adventure Island
Busch Gardens Tampa Bay

PENNSYLVANIA

Sesame Place

TEXAS

SeaWorld San Antonio

VIRGINIA

Busch Gardens Williamsburg
Water Country USA

TAKING CARE OF THE BEER BUSINESS

by Andrew Careaga
(acareaga@umr.edu)



Photo by A-B Photographer Phil Shoulberg

During his senior year at UMR, the most difficult career decision facing **Jeff Pitts**, ME'80, had to do with sorting through the numerous opportunities.

"I had 22 interviews, 22 plant visits and 21 offers," says Pitts, "and that was about the average that year." One particularly tantalizing offer came from an oil company that was building a new refinery in Mississippi, Pitts recalls. "Everybody was hiring engineers left and right" during the post-energy crisis boom. But after interviewing for a position with his hometown brewery, he declined 20 other offers and settled in with Anheuser-Busch.

Pitts cites three reasons for his decision:

1.) A-B's reputation and quality products. "I grew up in St. Louis, so I knew all about Anheuser-Busch, and my father was a loyal consumer of Anheuser-Busch products."

2.) Sheer economics. "People drink beer in good times and bad, so I knew it would be a stable place to work."

3.) Most important, the good vibes he got from the A-B staff. "I interviewed with three real gentlemen — Norm Leigh, Bernie Hoilman and Al Litteken," he says, "and after meeting with them I knew I'd have three people who would challenge me, look out for me and value what I did."

So Pitts joined A-B in 1980 as a project engineer. Twenty-four years and several promotions later, he is senior plant manager at the St. Louis brewery. "I never planned to be a plant manager," he says, "but I will tell you this is the best job I've ever had. When I wake up in

'I work with some of the finest people in the industry, and one thing you can always say about working for Anheuser-Busch: It's never boring.'

-Pitts

the morning, I honestly can't wait to get to work. I work with some of the finest people in the industry, and one thing you can always say about working for Anheuser-Busch: It's never boring."

Now in his fifth year as plant manager, Pitts describes the job as "co-managing the facility with the brewmaster," Peter J. Kraemer. "We're actually a team. Pete takes care of the brewing side, and I handle packaging, shipping and the business side of the operation. Together, he and I are responsible for the raw materials coming in, the final product going out and everything in between."

For Pitts, that responsibility typically begins around 7 a.m. each weekday. That's when "I'll get in touch with the midnight shift just to see what's happened in the plant over the last 16 hours." He'll then take a walk around the brewery, picking a particular portion of the 100-acre campus. "I try to pick a different process area every day. No agenda, just walking around to say hello to people, see what's going on."

By 8:45 a.m., the meetings begin. "We spend a lot of time working together to make things better," Pitts says. Every morning's meeting involves other senior staff in discussions about safety, productivity and quality. He also holds a "modernization meeting" at 11:30 a.m. on Mondays to discuss current projects — upgrading the brewery's canning and bottling operations to improve quality and make them more productive. Tuesday and

Real World: A-B

by Andrew Careaga (acareaga@umr.edu)

When it comes to learning about programmable logic controllers and factory automation, **Russell Weekley** found a great place to get an education. Working in Anheuser-Busch Inc.'s corporate engineering division from May to December 2003, the electrical engineering major spent plenty of time in heavily automated environments. He wrote standards for the company's Allen Bradley PLCs, which control many aspects of the brewing process, and traveled to A-B breweries in Fort Collins, Colo., and Newark, N.J., to help convert Unix-based touchscreen PLC systems to a Windows-based system.

For Weekley, A-B was a good fit. Even if his first job out of college is with another company, the experience of working with a leader in automation will prove valuable. "I knew that Anheuser-Busch was known as a world leader in automation," says Weekley, "but I was amazed at how in-depth the programs were and how failsafe they were. More and more factories are turning to automation. It's getting more and more prevalent, and people need to keep up with it."

Weekley landed the job through UMR's Cooperative Education Program. Better known simply as "co-op" by scores of current and former UMR students, the program allows students to spend a semester or two working in a position that pertains to their fields of study.

For A-B engineer **Julie (Achurch) Ziebold**, ChE'98, the opportunity to co-op at A-B — twice — convinced her that she wanted to work for the company. The same is true for **Laney (Fritz) Bisso**, ChE'03, who also spent two summers as an A-B intern.

Ziebold's first co-op job came in the summer and fall of 1995, and involved working on expansions at the company's breweries in Williamsburg, Va., and Jacksonville, Fla. She dealt with all aspects of the projects — process engineering work, supplying data to programmers, ordering equipment, and so on. "I had three or four people giving me things to do, so I was pretty busy," she says. When she returned to co-op for A-B a year later, she was assigned to a yeast-automation project at the Los Angeles brewery.

Bisso's co-op experience — primarily creating diagrams and flow charts for an expansion of A-B's Fort Collins brewery — taught her a lot about other engineering disciplines, and a lot about herself.

"I got to work with electrical engineers and mechanical engineers, so I learned a lot about working with people from other disciplines," she says. "I didn't know a lot about electrical engineering but I learned a lot about it during co-op."



Co-oping is invaluable experience to many UMR students, including Julie (Achurch) Ziebold, ChE'98, (above) whose co-op experience with A-B convinced her she wanted to work for the company.

Now a group manager who runs an eight-hour shift of one packaging line at the St. Louis brewery, Bisso's co-op gig, coupled with two summers as an intern for A-B, made her realize that corporate engineering wasn't for her.

"I learned what I enjoyed and what I didn't enjoy," she says. "I got to see fellow employees travel a lot and I got to decide whether that was something I wanted to do."

The lessons learned by Bisso, Ziebold and Weekley reinforce what **Jeff Steinhart**, EMgt'79, A-B vice president of engineering, calls the "invaluable" nature of cooperative education. "Any time students can get the opportunity to work as a co-op or a summer intern in an engineering position for a company like Anheuser-Busch, it is a huge benefit to both the student and the company," he says.

Thursday mornings are devoted to specific quality improvement initiatives, in which Pitts and other senior managers and operators examine data and specific processes, and look for ways to improve them. On Fridays, he holds strategic planning meetings with department heads and direct reports.

Finally, every week Pitts schedules communication meetings with employees. "Every week I connect with groups of employees on a no-agenda format, just to talk about the business and whatever issues our employees want to discuss."

All of his efforts — from a review of the midnight shift to his no-agenda meetings — boil down to two important issues: quality and safety. "Quality and safety are uppermost in everything we do through every step of the brewing, packaging and shipping process here at the St. Louis brewery," Pitts says. "The end result is that we make the best glass of beer around."

So it turns out that Pitts, who joined A-B in part because he knew he'd be taken care of, is taking care of the beer business for A-B.

A-B Employees Listing

What it takes

What does it take to succeed in an organization like Anheuser-Busch? Alumni-leaders at A-B offer some insight:

Learn how to learn.

"For me, I think the key is learning how to learn and learning how to solve problems," says **Philip J. Colombatto**, CE'71, MS EMgt'76, vice president for quality assurance for A-B Inc. "Learning how to learn, to me, is the most important part of an education."

Be a team player.

"We want people, of course, who want to work on teams," says **Sue Simmons**, ChE'84, senior resident engineer for the St. Louis brewery. "Everything we do involves teamwork."

Communicate.

"We want engineers who can walk on water and not leave ripples," says **Mike Meyer**, ME'75, senior director of brewing engineering for A-B Inc. He's only kidding, of course, but his quip points to the importance of "excellent communication skills" for engineers working in cross-disciplinary teams. "You need to be a fairly good writer," says Meyer. In addition, "You've got to be poised, confident, energetic."

Andrew S. Adams, EE'93, Systems Engineer
 Rusby G. Adams Jr., EMgt'81, Training Manager
 Steven R. Adams, CSci'82, Director, MIS
 Cleo F. Aebel Jr., EE'67, Retired
 Matthew C. Albietz, EE'03, Project Engineer
 Suzanne M. Alexander, ChE'86, Manager, Engineering
 William H. Allen, ChE'97, Assistant Brewmaster in Corporate Raw Materials
 Michael G. Balassi, CSci'90, Systems Specialist I
 Mark G. Bauer, CE'73, Engineer
 Robert S. Baumgartner, ME'83, Principal Engineer
 Scott M. Bean, EMch'85, Engineer
 William K. Beger, ME'66, Retired
 Donald A. Bene, EE'72, Senior Manager
 Eugene A. Bentrup, ME'50, Retired
 Wilfred F. Bereswill Jr., CE'80, Engineer
 James Bicklein, EE'87, Assistant Brewmaster
 Bradley B. Biggers, CSci'91, MIS Specialist
 Roger Earl Biggs, CSci'87, MIS Consultant
 Frank K. Billups, ME'75, Engineer
 Brent J. Bjerken, ME'90, Engineer
 Karlos D. Bledsoe, EMgt'87, Program Manager
 Daniel C. Bokermann, ME'71, Engineer
 Tanya M. Bozdech, EMgt'92, Planning Analyst
 Michael Brandt, EMgt'91, Area Manager, Brewing
 Gregory Brockman, ME'75, Group Manager, Brewing
 Robert R. Brockmeier, ME'74, Director Engineering
 Robert W. Bruce, PE'57, Instrument Supt
 Charles D. Brune, CSci'78, Senior Team Leader, MIS
 Stephen C. Brunts, ME'78, Manager, Supplier Certification
 Stephen Bugg, ME'65, Retired
 Gary W. Bumpus, CSci'71, Senior Specialist, MIS
 Lawrence J. Cain, Jr., EE'82, Engineer
 Regina M. Carpenter, ME'85, Manager, Engineering
 Thomas G. Cassady, CE'60, MS EMgt'75, Retired
 Michael O. Chase, ME'74, Manager, Engineering
 Vincent Chester, ME'81, Retired
 Kevin B. Clarkin, ME'80, Project Engineer
 Lee L. Clauss Jr., EMgt'79, Plant Engineer
 Phillip J. Colombatto, CE'71, MS EMgt'76, Vice President, Quality Assurance
 Paul C. Conant, EE'79, Resident Engineer
 Sandy J. Cortopassi, III, ME'72, Attorney
 William J. Crocker, EMgt'75, Product Supply Coordinator
 Nakia M. Curtis, ME'98, Process Engineer
 Tiago F. Da Rocha, ME'02, Group Manager, Brewing
 Frank V. Danzo, EMgt'80, Retired
 Robert Darnell, EMgt'83, MS EMgt'86, Senior Director
 Gregory A. Davis, EE'93, Engineer
 Michael L. Davis, EE'91, Engineer
 Timothy L. Davis, ME'90, Engineer
 Rochelle A. DelaRoche, EMgt'83, Director, Revenue Management
 John E. DePasquale, ME'81, Director, Metal Packaging
 Christopher J. Diebold, ME'95, Engineer
 Orrin J. Dieckmeyer Jr., EE'72, Engineer I
 Maria G. Dignam, EMgt'87, MSG Apps Development
 Marvin R. Doering, ChE'68, Plant Process Engineer
 Michael L. Drewel, EE'96, Engineer
 Charles E. Dunn, ME'51, Retired
 Ronald R. Dutton, EMgt'74, Manager, Engineering
 Jennifer C. Eckstein, ME'98, Assistant Brewmaster
 Michael P. Edwards, EE'73, Group Manager
 Steven Eilerman, ME'92, Area Manager, Process Support
 Mark A. Elfrink, ME'70, Manager, Environmental Health, Safety & Security
 Michael J. Elli, ME'71, Senior Manager
 Caroline I. Engeman, LSci'81, Director, Stat & Total Quality Engineering
 Stephen R. Engeman, EE'85, Engineer
 Kevin G. Fahrenkrog, ChE'88, Executive Assistant to Vice President, Brewing
 David M. Faintich, EMgt'68, MIS Specialist
 Joseph D. Feldmann, CE'83, Manager, Engineering
 Laura Fisher, ME'02, Process Engineer VI
 Michael T. Fleming, ME'82, Director of Facilities
 Dr. Barry R. Fox, CSci'87, Chief Architect
 Craig A. Fridley, EE'92, Engineer
 Laney Fritz, ChE'03, Group Manager
 James C. Gagnepain, EE'81, Engineer
 James Giles, CE'81, Vice President, Maintenance and Engineering
 John H. Gordon, CSci'88, Manager, MIS
 Brian Gosnell, EE'99, Engineer
 Richard H. Graham, EE'71, Engineer
 Ronald W. Gregg, EE'90, Project Engineer
 Richard M. Grojean, EE'82, MIS Group Manager, MSG
 Samuel A. Gulotta, ME'56, Retired
 James E. Gusewelle, CSci'95, Group Manager, MIS
 Robert A. Haas, ME'89, Manager, Engineering
 Eugene Haberl, ME'71, Manager, Energy & Utilities
 Richard C. Hafner, ME'76, Engineer
 Paul E. Haley, ChE'70, Process Engineer
 Khara (Brock) Hall, EE'99, Electrical Project Engineer
 John D. Hegger, ChE'86, Engineer
 Fred R. Heifner Jr., ME'73, Engineer
 Gary G. Heimbaugh, ME'78, Manager, Engineering
 Kenneth Hernton, NDD*, Engineer
 Joseph L. Hoffmeister, CE'89, Manager, Micro Brewing & Import Distribution
 Richard E. Hofmann, ME'78, Engineer
 Dennis J. Hoguet, ME'94, Engineer
 Deborah Holdorf, ChE'01, Engineer
 Stephen J. Hostetter, EE'93, MIS Business Analyst
 Timothy J. Huether, EE'87, Engineer
 Edmund E. Jenke, CSci'79, Senior MIS Team Leader
 Thomas Jokerst, CE'03, Group Manager
 John D. Jones, MS CSci'86, MIS Senior Specialist
 Jon Joplin, EE'90, Manager, Engineering
 Justin M. Juengel, ChE'95, Area Manager, Brewing
 Robert E. Kallemeier, ME'62, Retired
 James G. Kaltenbronn, EE'81, Manager, Engineering
 Sherman L. Keathley, EMgt'85, Group Director, Corporate Purchasing
 John G. Kellerman, ME'82, Senior Director, Brewery Operations
 Scott J. Kellerman, ChE'90, Engineer
 Scott A. Keran, ChE'96, Experimental Brewer
 Daniel Kimutis, EMgt'84, Plant Manager
 Randy Kleinmann, EE'91, Senior Systems Coordinator
 Steven C. Klick, PE'82, Reliability Manager
 2nd Floor Cans
 Michael G. Klump, EE'80, Manager, Engineering
 Arthur A. Kohlberg, ME'72, Manager, Engineering
 Daniel J. Kovarik, ME'77, Engineer I
 Vinko Kozul, ME'84, Senior Manager, Process Support
 Robert G. Kreutz, ME'71, Manager, Engineering Services Group
 Dr. Richard R. Kunkel, Math'67, Manager, Ind Engineer
 John J. Laschober, ME'81, MS EMgt'86, Engineer
 Harry D. Latina Jr., MS CE'80, Retired
 Trajano E. Latorre, AE'82, Consultant
 John R. LeBrell, EE'70, Manager, Engineering

Kevin A. Leonard, ME'86, Senior Project Leader
 John E. Letter, ChE'42, Retired
 Matthew Licklider, ME'92, Engineer
 Ron Mark Livaudais, CSci'83, MIS Specialist
 Ronald Longwell Jr., ChE'96, Group Manager, Brewing
 Christopher J. Luber, EMgt'86, Engineer
 Clifford A. Mahin, MS CE'76, MS EnvE'77, Manager,
 Water & Wastewater
 Leo A. Mankovich, ME'62, Retired
 William F. Manson III, EE'73, Manager, Engineering
 Dwane Mattmuller, ChE'87, Engineer
 William L. Maxfield, MS CE'78, Engineer
 Nicholas D. Mazza, ChE'98, Engineer
 William H. McCreary, ME'99, Engineer
 James L. McLafferty, CE'76, Senior Project Engineer
 Wayne C. Meglan, ME'84, Engineer Principal
 Louis A. Mendlowitz, ME'95, Project Engineer
 Charles R. Meyer, CE'87, Estimator
 David L. Meyer, EE'81, Manager, Engineering
 Douglas M. Meyer, EE'91, Engineer
 Michael J. Meyer, ME'75, Senior Director,
 Brewing Process
 Albert M. Meyers, ME'93, Group Manager,
 Process Support
 Bruce V. Miller, ME'80, Manager, Engineering
 Daniel E. Miller, ME'84, Plant Engineer
 John M. Mills, ME'85, Senior Manager, Operations
 Craig A. Moellenhoff, EE'91, Application Manager, IT
 Gerald L. Moeslein, EMgt'70, Manager, Environmental
 Health and Safety
 Alan P. Morgan, EE'84, Engineer
 Ronald A. Morgan, EMgt'78, Senior Director,
 Packaging Engineering
 John T. Mudd, ME'58, Retired
 Ray T. Mueller, ME'82, Engineer
 Patrick L. Murphy, MS EMgt'82, Manager,
 Distribution/Logistics
 Stephen E. Myers, EE'67, Manager, Engineering
 Marcia Naugle, MgSy'99, MSG Purchasing and
 Plant Maintenance System
 Mark Nelson, ME'92, Area Manager, Operations
 Michael D. O'Brien, ME'82, Manager, Engineering
 John J. Oefelein, EE'53, Retired
 Steven M. Ohlendorf, ME'83, Senior Engineer
 Gary D. Ottoline, EE'75, Computer Engineer
 Jay Paige, MS EE'93, (title not available)
 Thomas A. Papin, CerE'60, Senior Engineer
 David A. Patterson, ME'91, Engineer
 Jack Pelech, ME'77, Senior Engineer
 Donald M. Peterson, EMgt'69, Retired
 Glenn S. Phegley, EE'81, Engineer
 John (Jeff) Pitts, ME'80, Senior Plant Manager
 Angela M. Poertner, EMgt'98, Corporate Engineering
 Laura Ann Pohl, EMgt'84, MS EMgt'90, Senior
 Financial Analyst
 Robert J. Power, EE'60, Retired
 Douglas K. Preis, EE'95, Senior Specialist, MIS
 Dewey L. Pruitt, EMgt'82, Group Manager,
 Process Support
 Donald E. Rainbolt, EMgt'91, MS EMgt'00, Engineer
 Thomas P. Reel, ME'75, Operations Manager
 Jada D. Reese, ME'84, Manager,
 Corporate Substance Testing
 Curt A. Rehkemper, EE'89, Engineer
 Kevin J. Reilly, ME'93, Engineer

Kenneth E. Rice, ME'93, Group Manager,
 Process Support
 Michael K. Richardson, EE'79, Senior Process Engineer
 Michael G. Richter, CE'73, MS CE'77, Manager,
 Engineering
 Jeffrey Rueschhoff, ME'99, Group Manager
 Robert J. Sagan, ChE'65, Project Manager
 Edward A. Samuels, CSci'86, Senior Tech Analyst
 Don A. Schlechte, ME'73, Senior Manager, Engineering
 Kristopher Scholl, ChE'98, Assistant Brewmaster
 Earl L. Schraier, CSci'72, Manager, Engineering
 Richard A. Schwegel, EE'58, Senior Engineer
 Christopher G. Scott, EE'97, Engineer
 Alison Sievers, ME'02, Packaging Engineer
 Susan Simmons, ChE'84, Senior Resident Engineer
 Jeffrey Skillington, EE'92, Engineer
 Charles R. Smith, EE'67, Retired
 John L. Stein, EMgt'73, Director, Environmental Affairs
 Geoffrey (Jeff) Steinhart, EMgt'79, Vice President of
 Engineering
 George S. Stewart, ChE'92, Process Engineer
 Robert W. Sucher, ChE'58, Retired
 Gregory J. Suellentrop, ChE'88, Senior Assistant
 Brewmaster, SLB
 James H. Suellentrop, ME'70, Retired
 Joseph Sueme, ChE'43, Retired
 Darren S. Sullivan, ME'95, Engineer
 Dennis G. Sylvester, ME'72, Senior Plant Engineer
 John F. Templeton, EE'64, Plant Electrical Engineer
 Donald R. Thurman, CSci'77, Senior MIS Team Leader
 Richard H. Tice Jr., ME'68, Retired
 Dennis W. Uding, ChE'01, Engineer
 John D. Uhlhorn, ME'70, Engineering Manager
 Brian M. Ulsh, ME'79, Manager, Engineering
 Mark G. Viox, ME'80, Director, Process Engineering
 Timothy J. Viox, ME'87, Corporate Director of Rides,
 Engineering & Maintenance Support
 John E. Voigt, ChE'54, Retired
 Kenneth M. Vonder Haar, ME'87, Site Manager
 Randall S. Wakeland, EE'92, Engineer
 Timothy R. Wallisch, EE'85, Resident Engineer
 Steven L. Watts, ME'88, Group Manager,
 Process Support Utilities
 Keith D. Wesselschmidt, CE'80, Senior Manager,
 Manufacturing Analysis
 Lawrence Wetzel, EMgt'79, MS EMgt'80,
 Operations Manager
 Michael B. Wheeler, ME'62, Project Engineer-Can
 Manufacturing Division
 Martin E. White, EE'74, Senior Engineer
 Walter L. Wiedermann, ME'72, Engineer
 David J. Wiemann, EMgt'88, Senior Packaging Engineer
 Valerie J. Williams, EMgt'83, Plant Engineer
 Vernon Williams, ME'86, Senior Resident Engineer
 Gerald C. Willick, CSci'75, Manager, MIS
 Glenn L. Wilson Jr., MS EMgt'82, Senior
 Plant Manager
 Mark K. Wilson, Econ'81, Quality Assurance
 Christopher L. Wood, ChE'81, Manager, Engineering
 Charles F. Yarnall, CSci'76, Senior Team Leader, MIS
 Julie Youngren, ChE'99, Engineer
 Adrian A. Yu, EE'93, Senior Analyst,
 Marketing Research
 Julie (Achurh) Ziebold, ChE'98, Engineer
 Richard C. Zink, ME'63, Retired

'Parlez-vous une langue autre que l'anglais?'

"One thing we're not very good at as a country is emphasizing the need to learn two languages," says **Jeff Steinhart**, EMgt'79, vice president of engineering for A-B Inc. In an increasingly global workplace, engineers fluent in more than one language have an edge, he adds. Steinhart knows whereof he speaks. He travels to A-B's brewery in Wuhan, China, several times a year. "Learning Chinese is like learning two languages," he says. "There's the language you speak and the language you write." In addition to the language barriers, Steinhart recommends students spend time getting some on-the-job training through cooperative education programs. "Any time students can get a job in the summer co-oping to learn about what it's like working in an industry, that's a huge benefit."

Be open to new opportunities.

"Don't limit yourself to the engineering department. Understand all of the aspects of your company, and your company's competitors," says **Tim Viox**, ME'87, corporate director of rides engineering and maintenance support for A-B subsidiary Busch Entertainment Corp. "Companies look for well-rounded individuals who show knowledge and understanding of the overall business plan."

Attitude matters.

"I look for attitude first," says **Jeff Pitts**, ME'80, senior plant manager of the St. Louis brewery. "Second is, do you have the ability to learn? The third thing is skill. If you have the first two things, we can teach you the third thing."

Dear readers: While we have made every effort to check the accuracy of this list, errors still occur. If you find an error or omission, please contact UMR Records at (573) 341-4055 or email Donald Roshan, supervisor of records, at roshand@umr.edu.

UMR archives: they're history

by Mary Helen Stoltz (mhstoltz@umr.edu)

Photos by Bob Phelan/Photomasters

From *Rollamo* yearbooks and century-old scrapbooks to commencement programs, departmental papers and even a Snoopy figurine in astronaut gear, the UMR archives houses as much of the campus' history as its staff members can get their hands on.

The biggest challenge archivist **Diana Ahmad** and assistant archivist **Melody Lloyd**, Hist'97, face is not how and where to store the treasures they receive, but to spread the word about the archives' very existence. "People don't know we're here," Ahmad says.

The facility accepts any materials that pertain to the university: yearbooks, pamphlets, departmental newsletters and other publications, faculty research notes and class rosters, and minutes from campus committee meetings. Items the archives doesn't have room for or that don't require immediate access are stored at the UM System's larger facility in Columbia, Mo. They're still retrievable, though, Lloyd says; it just takes an extra day or two.

Organizing all of this data is a chore, but Lloyd has it under control. Archival material can be easily retrieved when needed for research on a variety of topics. "Students use the archives for background on faculty research when writing their doctoral dissertations and people outside the university contact us for photos or information about family members who may have attended UMR," she says.

This fall, the archives was contacted by producers from The History Channel for background on **John "Pat" H. Hell**, MinE'33, for the documentary "Rescue at Dawn: The Los Banos Raid," which aired on the network in February. After graduation from MSM-UMR, Hell went to work in the Philippines and was executed by the



Archivist Diana Ahmad, left, and assistant archivist Melody Lloyd display some of UMR's historic treasures.

Japanese on Jan. 15, 1945, while being held in the Japanese prison camp at Los Banos on the Philippine Island of Luzon.

More recently, staff and faculty involved in the planning and fund-raising efforts for the renovation of the Mechanical and Aerospace Engineering Complex have used the archives to research the department's history. Also, during construction on the addition to the Butler-Carlton Civil Engineering Building, staff and faculty unearthed a valuable find for the archives.

"In the process of cleaning out the old building, we came across several boxes of personal notes and departmental

information from the era of **Joe B. Butler**, MS CE'24, and **E.W. 'Skip' Carlton**, CE'26, MS CE'31 (former faculty for whom the building was named)," says **William Schonberg**, chair of civil, architectural and environmental engineering. "What we found could be of significant value to anyone researching the history of UMR and the civil engineering department, so we immediately turned them over to the archives. We were very pleased when the archives allowed us to proudly display them in the new building's (Fred, CE'55, and June) Kummer Atrium."

Getting down to business

Students get a taste of entrepreneurship while helping non-profits

Students who enroll in a new capstone course in the School of Management and Information Systems are certain to profit from the experience. But local charitable organizations will profit as well. That's because the class project — creating real businesses that make and sell real products — includes a benevolent angle.

Students get down to business in SM&IS 397, the Capstone Seminar course for all majors in the school. The students form their own companies, develop a product to sell and write a business plan to present to the loan board of Phelps County Bank in Rolla. The goal is to secure business loans from the bank, which they can then repay with profits from their product sales. Any additional profits from the sales then go to local charities.

This real-world approach is part of a new mind set in business school capstone courses, says **Ray Kluczny**, SM&IS associate dean and chair of the school's business administration program. In addition to the nuts-and-bolts of running a business, the course is also teaching students to be responsible community stewards.

The course offers a safe environment for budding entrepreneurs to learn about the challenges of business, says **Ryan Morris**, Econ'94, a commercial loan officer at Phelps County Bank. "Many small-business owners don't get the chance to make mistakes without major implications," Morris says. "They don't get a trial run at it, so a course like this provides very valuable business experience."

Course instructor **Madhu Reddy**, assistant professor of business administration and information science and technology at UMR, agrees. "One of the goals of this course is to give students those opportunities in an environment where they can make mistakes," he says. "We're trying to encourage them to learn about the problems they'll face in the business world after graduation."

By the time the students take this course, usually in their senior year, they should have all of the theoretical knowledge from their foundation courses — in economics, business administration, and information science and technology. This will give them a chance to put the theory into practice.

Offered for the first time last spring, the course's 33 students set up and ran two separate companies: Managen Enterprises and Miner Solutions. Managen Enterprises created engraved drinking glasses, and Miner Solutions made designer-style sunglasses. The companies' profits provided funding for Prevention Consultants of Missouri and the Greater Rolla Area Charitable Enterprises (GRACE).

From St. Pat's sweatshirts to a Snoopy spaceman, the archives houses more than books

The archives houses more than just documents on its shelves. Some of the more interesting items include:

- More than 20 years of St. Pat's sweatshirts.
- Medals of honor

and a ceremonial flag from a graduate killed in France during World War II. He had no family, so all of his belongings were

shipped back to campus in his suitcase, Lloyd says.

A few years back someone ran across that suitcase in Schrenk Hall and sent it to the archives. Now the flag is proudly displayed in the front office.

- A Snoopy dog dressed as an astronaut donated by **George Mueller**, EE'39, who was head of NASA's manned space flight program during the *Apollo* space program.

Snoopy was the *Apollo* astronauts' mascot.

The facility also houses "lots of good old dirt," Ahmad says with an air of mystery, referring to the juicy tales buried in the various private personnel files collected throughout the years.

"But, of course, it's confidential."

Melody Lloyd notes the facility has limited hours, but she is happy to provide assistance.

For more information on donating personal or professional items to help the archives preserve a slice of campus history, email archives@umr.edu or call the archives at (573) 341-6954.



Photo by Bob Phelan/Photomasters



Representatives of UMR's Interfraternity and Panhellenic councils.

Greeks get national recognition

UMR's fraternities and sororities do a lot of good for the Rolla community. They organize blood drives, help tutor elementary and secondary school students, ring bells for the Salvation Army, and collect food for local charities. In February, UMR's two Greek governing councils — the Interfraternity and Panhellenic councils — garnered national recognition for their good works from the Mid-American Greek Council Association. The association presented the councils with a national award for community service and philanthropy during MGCA's annual conference in February in Chicago. **Patty Weng**, a senior in applied mathematics from Webster Groves, Mo., and president of UMR Panhellenic Council, was there to accept the award.

"Both councils do numerous service projects around campus and in the community," says **Matt Goodwin**, UMR Greek life coordinator. Last September, UMR Greeks organized Linking Hearts, an event held to acquaint foster children with potential families. In addition, during the past academic year UMR's Greek students have donated more than 400 units of blood to the Red Cross. The Greek governing councils also participate in youth tutoring at local schools, and conduct food drives at least once a semester.

Book work for American Samoa

"Think globally, act locally" may be the mantra of environmentalists, but it's also a saying the UMR History Club took to heart this past winter. After learning about the plight of schools in American Samoa that were devastated by a cyclone in January, History Club members organized a drive to replace books for the schools. The club secured donations from two major textbook publishers, Scholastic Books and Bedford/St. Martin's Press, and then held two book and baked-good sales in February and March to cover shipping costs.

Cyclone Heta caused \$150 million in damage when it hit American Samoa, destroying one school and heavily damaging others. "When we heard about the damage caused from Cyclone Heta, the History Club chose this humanitarian effort to show them that Americans help Americans," says **Rebecca Rose**, a junior history major from Osage, Mo.

Teaching teachers the UMR way

This summer, UMR faculty are helping teachers in nine rural Missouri schools improve their science instruction through a \$141,111 grant from the Missouri Department of Higher Education and the Coordinating Board of Higher Education. The mid-summer workshop for middle school and high school teachers focuses not only on matter, energy and life sciences, but includes units on understanding experimental data.

"With this course we're looking at things we can do to get the teachers excited about science so they can keep their students excited," says **Allan Pringle**, professor of physics at UMR. Pringle works with area schools to engage students in learning about science by making the learning process more fun. Working with Pringle are **Evalee Lasater**, adjunct associate professor of education and coordinator of UMR's teacher education program, and **Ronald J. Bieniek**, associate professor of physics and director of UMR's Learning Enhancement Across Disciplines (LEAD) and New Faculty programs.



Allan Pringle takes a hands-on approach to science.

Photo by Bob Phelan/Photomasters

Curators OK five-campus system

Plans to make Northwest Missouri State University in Maryville the fifth University of Missouri campus moved closer to reality this past winter when the UM Board of Curators and Northwest's governing board both approved the plan. Now the proposal must win the approval of Missouri's lawmakers. If approved, the fifth campus would be called University of Missouri-Northwest.

HOME SICKNESS

Your itchy eyes and dry throat may not be symptoms of the common cold. They could be the result of exposure to some common chemicals in your home, says **Glenn Morrison**, assistant professor of civil, architectural and environmental engineering. Morrison is researching new techniques to understand indoor air pollution and Sick Building Syndrome.

Some chemical products, while benign on their own, can combine with outdoor pollution all urban areas face and cause problems for people indoors. "Terpenes, often used as a fragrance in cleaning materials, are perfectly natural and fine by themselves," Morrison says. "But they combine with ozone — from either outdoor air or ozone-generating devices — to create a mixture which has a very high aerosol concentration, higher than federal standards." Such a mixture may react with mucus membranes to create a situation where people may feel ill, although they may not smell anything.

"This leads to symptoms associated with Sick Building Syndrome," Morrison says. "It's a subtle phenomenon that occurs indoors that makes people feel poorly because they are being attacked in a low-grade way by these reactive chemicals."

Common symptoms include lethargy, dry throat, itchy eyes and irritated mucus membranes.

Morrison says that people get 95 percent of their exposure to most of these toxic chemicals just by going home at night.



Photo by Bob Phelan/Photomasters

Glenn Morrison and Ph.D. student Hong Wang measure the effect of outdoor air pollution on indoor surfaces.

"Residential exposure to indoor pollution is probably worse than anywhere else, unless we're talking about some unusual occupational setting, like coal mining," Morrison adds. "The pollutants, mainly organic compounds and a variety of

aerosols, are at just plain higher concentrations."

Part of Morrison's project with the National Science Foundation focuses on the chemistry of surfaces and how that chemistry creates pollutants indoors. "For example, cooking can affect the chemistry of surfaces," Morrison says. "Cooking oils get all over the place. These oils react with naturally occurring ozone in air and create a variety of compounds that may be toxic or just plain irritating or smelly. All of these things combine to make an indoor atmosphere much worse than an outdoor atmosphere."

KEEPING A HEALTHY HOME

According to Morrison, people can limit the amount of air pollution in their homes by taking the following easy steps:

- Don't put lawnmowers or other equipment that use gasoline in a connected garage. Put them in a shed outside.
- Properly maintain your home so that you don't generate mold. Repair all the leaks and make sure you use the ventilation fan when taking a shower because that's where many mold problems begin. Have an electrician connect the fan to the light switch so it always comes on.
- Reduce your use of all kinds of chemical cleansers and use more benign items like baking soda.
- Don't use any kind of ozone-generating device or unvented heaters indoors.
- Don't smoke indoors.

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Quake-proof bridges

If the St. Louis area is going to brace itself for the Big One, then engineers there are going to have to do something about many of the region's bridges. Many of them won't withstand the impact of a major earthquake, according to a study conducted by **Robert Riess**, CE'04, as part of an OURE (Opportunities for the Undergraduate Research Experience) project.

Working with officials from the Missouri Department of Transportation and data from the Federal Highway Administration, Riess examined 16 bridges in the St. Louis area to determine how well they would hold up in an earthquake. The work was part of a larger seismic engineering research project by Riess' advisor, **Ronaldo Luna**, an associate professor of civil engineering.

"We picked various bridges based on their soil classification, length, year built, and other characteristics to determine which ones might be vulnerable in an earthquake," says Riess, a native of The Woodlands, Texas. With more than 2,500

bridges in the St. Louis area, Riess focused only on shorter bridges spanning 200-500 feet. "The performance of the highway system in a major metropolitan city in mid-America is of great importance and significance to the economic and social welfare of this region," Riess says.

Photo by Bob Phelan/Photomasters



Robert Riess' research identifies bridge problems in the St. Louis area.

"The highway system should be earthquake resistant. However, the infrastructure on which this highway network is built is, in many locations, past its design life. Many

of the bridges built in the 1940s through the 1970s did not incorporate seismic design considerations."

The St. Louis area is vulnerable, says Riess, because it is close to the New Madrid seismic zone in Missouri's Bootheel region. The zone is known for the New Madrid earthquakes of 1811-1812, one of which registered 8.0 on the Richter Scale and rang church bells in Boston. "Based on the history and the location of the New Madrid seismic zone, St. Louis could receive ground motion from an earthquake that would result in serious consequences to the structures in St. Louis and more importantly, the safety of the citizens," Riess says.

In 2003, Riess won first place and a \$1,000 award for his paper and presentation in UMR's Undergraduate Research Symposium. In June, he began working as a facilities engineer at ChevronTexaco Overseas Petroleum in Houston, Texas. His work will focus on a project in Angola, Africa.

Microbiologist appointed to Soap Lake Conservancy

Thanks to her studies of microbes that thrive in extreme conditions, such as high-salt environments, UMR microbiologist

Melanie Mormile is now advising a group working to preserve a unique section of North America's ecosystem. Mormile, an assistant professor of biological sciences, in February was elected a fellow of the Science Advisory Board of the Soap Lake Conservancy.

The organization was created in 2000 to protect the ecology of the lake's mineral waters while promoting economic development based on Soap Lake's unique attributes. Located in central Washington, the lake is known for its high salt content and promoted for the possible healing properties of its water and mud.

Photo by Bob Phelan/Photomasters



Melanie Mormile

An environmental microbiologist, Mormile and two other researchers — Holly Pinkart, associate professor of biological sciences at Central Washington University, and Brent Peyton, associate professor of chemical engineering at Washington State University — have established the Soap Lake Microbial Observatory to study the unusual community of life forms found throughout the stratified lake's water column. This includes the lake's thick, salty lower layer, where the extremophiles reside.

With its high pH and salinity, Soap Lake is unique in that waters have not turned over in more than 2,000 years. "Normally, lakes turn over twice a year due to temperature changes in the water," Mormile explains. Throughout the year, dead algae and other organisms, with all their nutrients, accumulate at the bottom of the lake and remain trapped there due to Soap Lake's shape and high salt content.

Our brilliant CAREER

NSF awards grants to four UMR faculty members

Four tenure-track researchers at UMR got a big career boost recently when they each received a \$400,000, five-year CAREER grant from the National Science Foundation (NSF) to support their work.

The Career Award is NSF's most prestigious award to tenure-track faculty. The program provides funding for researchers' early career development activities.

The UMR researchers are:

- **William G. Fahrenholtz**, assistant professor of ceramic engineering, for his efforts to develop high-temperature-resistant materials for defense systems. In one project, Fahrenholtz and **Greg Hilmas**, also an assistant professor of ceramic engineering, are creating materials that resist the shock of sudden temperature changes. Funded through the Army's Space and Missile Defense Command, the research may result in stronger missile nozzles.

- **Glenn Morrison**, assistant professor of civil, architectural and environmental engineering, for his research into Sick Building Syndrome (*see related story on page 23*). Morrison received his CAREER grant last fiscal year.

- **Ganesh K. Venayagamoorthy**, assistant professor of electrical and computer engineering, for his work to improve the nation's power grid. Venayagamoorthy is examining intelligent computing methods to better control the flow of electricity along the nation's aging power infrastructure.

- **Thomas Vojta**, assistant professor of physics, for his research into materials that are "superconductive," or transmit electricity with no energy loss. Vojta is trying to understand why certain combinations of materials allow superconductivity to occur at higher temperatures than others. His research involves the study of "quantum phase transitions" in the materials.

Another top-10 finish for Miner swimmers

The UMR swimming team captured ninth place in the NCAA Division II Swimming and Diving Championships in March in Buffalo, N.Y. It was the Miners' seventh top-10 finish at the national meet in the last eight years.

UMR scored 165.5 points over the four days and was as high as sixth in the team standings before finally finishing ninth. The Miners got All-America performances on an individual basis from **Mike Minard** and **Jack Pennuto**, as well as honorable mention All-America showings from four others. The Miners' 400-yard medley relay team of **Sean O'Donnell**, **Bill Gaul**, Pennuto and **Tanner Woodman** also earned an All-America award with an eighth-place finish.



UMR swimmers excel in nationals.

Minard earned his three All-America awards in the distance events, finishing sixth in the 500-yard freestyle in 4:31.29 and 1,650-free in 15:54.55 as well as seventh in the 1,000-yard freestyle in 9:29.30. All three of those performances were Minard's career bests in those events.

Pennuto, meanwhile, tied for fourth in the 200-yard butterfly with a school-record time of 1:51.56 and placed sixth in the 400-individual medley in 4:04.16 and seventh in the 200-IM in 1:54.50. Pennuto also claimed an honorable mention All-America spot in the 200-backstroke with a time of 1:53.56 in the consolation finals.

Diamond notes: some gems in softball, baseball

The seasons on the ball diamonds at UMR have seen one team soar in the NCAA Division II regional rankings, while the other has had its share of high points in an otherwise tough season.

Under the direction of first-year head coach **Ryan Anderson**, the softball team had already set a new school record for wins as it held a 32-10 record through play on April 6. A doubleheader sweep that afternoon against Missouri Southern also vaulted UMR into first place in the Mid-America Intercollegiate Athletics Association with a 7-3 conference record.

Outstanding pitching has been the key to the Lady Miners' success this year. Senior **Christy Deken** had a 19-2 record — the most wins ever by a UMR pitcher in one season — with a 0.48 earned run average and an MIAA-record 247 strikeouts by April. Deken, who has thrown two no-hitters this season to go along with the pair she had a year ago, had thrown 13 shutouts in 2004.

Not to be outdone, sophomore **Renee Roberts** was 13-6 with a 1.06 ERA and had nine shutouts of her own. Roberts also threw a perfect game in March against Green Mountain College (Vt.) during the team's spring trip to South Carolina.

Offensively, senior **Janet Borgmeyer** was closing in on the school record for career hits. The UMR second baseman, hitting a team-best .388 on the year, entered the second weekend in April just four hits away from the record of 211 held by **Becca Alt**.

Over on the baseball field, the Miners were 9-22 through play on April 6, but two of those victories came at the expense of defending national champion and No. 1-ranked Central Missouri State. In one of those victories, junior pitcher **Eric Walling** threw a two-hit complete game to earn the MIAA's "Pitcher of the Week" award.

Track and field: another All-America honor for Kate Hamera

Kate Hamera earned her second All-America honor of the 2003-04 athletic season by finishing seventh in the one-mile run at the NCAA Division II Championships in Boston. Hamera set a new school record in the event with a time of 4:49.05 to finish seventh and add another All-America honor to the one she earned in cross country in November.

In the men's long jump, **Tyrone Smith** finished with a top mark of 22-7 3/4 to finish 10th at his first national competition. He was 4 1/4-inches away from a scoring spot in that event. In the outdoor season, the Miners have had two provisional qualifiers thus far in **J.R. Skola** in the pole vault and **Auburn Walker** in the triple jump. Both have established new school records in their respective events.

Back the Miners: join the Chairback Seat Campaign

UMR's Gale Bullman Multi-Purpose Building is undergoing some major renovations this summer, and alumni and friends have the opportunity to assist by purchasing a new chairback seat of their own.



As part of the renovations, new chairback seating will be installed to replace the original wood bleachers on the lower level of the arena. Thanks to a leadership gift from **Armin** and **Norman Tucker**, both MinE'40, the UMR Chairback Seat Campaign is now a reality. Alumni may join the Tucker twins in support of this project by pledging to have

their names inscribed on a chairback seat in the arena. Each \$1,000 pledge allows alumni and friends to "buy" a chairback.

The overall renovation will improve the seating within the arena for those attending basketball games, commencements, the Remmers Special Artist/Lecturer Series, concerts and other events held in the facility. The work will also enhance recruiting efforts to bring more quality scholar-athletes to UMR.

The chairback seats will be installed in three sections on both the north and south sides of the lower bowl of the arena. Sculptured bleacher seating will make up the outside sections on the north and south sides, and additional bleacher sections will be installed on both ends of the floor. Wheelchair cutouts, railings, landings and small steps will make the renovated seating accessible for the frail and elderly. The lowest row will be closer to floor level and the seating areas will have more leg room.

There is no limit on the number of seats an individual or business may name. Pledges for this project are to be paid in full by June 30, 2005, and are tax deductible as allowed by law. For more information on the project, contact the UMR athletics department at (573) 341-4175.

Basketball: Muonelo, Westre pick up first-team honors

Two members of the UMR men's basketball team, **Ike Muonelo** and **Brian Westre**, picked up first-team honors when the post-season awards were all handed out in March.

Muonelo, a senior guard, was honored by the Mid-America Intercollegiate Athletics

Association as a member of its all-conference first team for the 2003-04 season. He finished the season as the third-leading scorer in the conference with an average of 16.9 points per game this year and was one of



Brian Westre, Academic All-American.

four guards named to the first team by the league. Muonelo also ranked among the conference leaders in assists (4.5 per game with a team-high 126) and in three-point shooting, where he made 77 of 190 shots from behind the arc (40.5 percent).

Westre, a first-team All-MIAA selection a year ago who averaged 15.5 points and 9.4 rebounds per game this season, was named honorable mention by the conference. Sidelined with an injury for much of the season, Westre nevertheless earned a first team Academic All-America selection as named by the College Sports Information Directors of America. He became the first basketball player in UMR history to be selected to the academic team on three occasions.

The UMR women's basketball team also had an honorable mention selection to the all-league team in **Andrea Durante**; she was the top scorer among the freshmen in the conference with an average of 12.7 points per game this season.

homecoming '04

Paradise Island



Paradise Island Theme Song

*(Sung to the tune "Ballad of Gilligan's Island"
by George Wyle and Sherwood Schwartz)*

*Just come right down to ole UMR,
Make it your annual trip.
Meet old friends at your alma mater,
A weekend of kinship!*

*At Paradise Isle you'll have great fun,
Of that you can be sure.
Four days chock-full of cool events,
You couldn't ask for more, couldn't ask for more.*

*To see the campus and your friends,
The gas is worth the cost
With participation from the campus folks
Your weekend won't be lost, your weekend won't be lost*

*So in October visit UMR Home-coming's land-locked "isle"
With reunions
And conferences
Open houses and the like
Quiz-less courses
And the brand-new Havener Center
Here at Paradise Isle!*

Register your attendance

Stop by the Havener Center and let us know you're back in Rolla. Registration is free, and only takes a few seconds. If you pre-register, we'll have your name tags ready for you when you arrive. During registration, UMR Archives will have a "memories" display of the campus. See if you can find yourself in any of our photos. Registration is from 8 a.m. to 4:30 p.m. on Friday, and 8 a.m. to 11:30 a.m. on Saturday.

Friday, October 15

- 3 to 4:45 p.m. **Departmental Open Houses** (see the complete list on the following page)
- 5-5:45 p.m. **GRAND OPENING – HAVENER CENTER.**
Celebrate the grand opening of the Havener Center, the 100,000-square-foot facility that will house all student services in a single building.
- 5:45-10 p.m. **SILVER & GOLD LUAU FEATURING RELATION,**
Havener Center. Reception and buffet begin at 5:45 p.m. Show starts at 7 p.m. Tickets required.
Admission price includes the buffet, show and two drink tickets. Minority Engineering & Science Program (MEP) 30th Anniversary participants will have a reserved room during the Silver and Gold event. (See ticket order form)
- 7-10 p.m. **Relation takes the stage.** Relation is a dance band based in St. Louis and provides great dance music from oldies, Motown, country, classic rock and disco. (See ticket order form)



Saturday, October 16

- 10:30-11:30 a.m. **Chancellor's Reception at the Chancellor's Residence,**
506 W. 11th St., hosted by Chancellor Gary Thomas and his wife, Dr. Barbara Tedesco
- 11 a.m. **Silver Anniversary Recognition Ceremony** for the graduates of the Class of 1979 at the All-Alumni Reunion Lunch, Havener Center. (See All-Alumni Reunion Lunch for more details)
- 11 a.m.-1 p.m. **ALL-ALUMNI REUNION LUNCH** for all alumni, family and friends, Havener Center. Features reserved seating for the reunion classes of 1953 and before, 1954, 1959, 1964, 1969, 1974, 1979, 1984, 1989, 1994, 1999 and 2004. MEP also will have a reserved table during this event. (See ticket order form)
We'll test your memory with quizzes for each reunion class. See who remembers the most from your days in Rolla!
CLASS PICTURES WILL BEGIN AT 11:30 A.M.!
- 1 p.m. **Football Kickoff - MINERS VS. WASHBURN**
Allgood-Bailey Stadium
- 6:15 p.m. **CASH BAR RECEPTION,** Havener Center
- 7-9 p.m. **ALUMNI ISLAND AWARDS BANQUET,** Havener Center — followed by the MSM-UMR Alumni Association Annual Meeting. (See ticket order form)

Feature Entertainment



Relation is a St. Louis-area band with a wide-ranging musical repertoire including oldies, country, R&B, Motown, blues, disco and classic rock. Formed in 1967, Relation's band members are: Mike on keyboard, bass and backup vocals; Brian on lead vocals; Don on lead vocals and bass guitar; Phil on beat, percussion, bass and background vocals; Mark on percussion, harmonica and drums; Greg on bass; and Kasey on vocals. Mark, Brian and Don are cousins...hence the band's name, Relation.

schedule of events

Thursday, October 14

6 p.m. **Academy of Mechanical and Aerospace Engineers Induction Reception and Dinner**
Havener Center

Friday, October 15

8 a.m.-3 p.m. **Corporate Development Council Meetings**
8:30 a.m.-2:30 p.m. **Academy of Mechanical & Aerospace Engineers Meetings**, Havener Center
8:30 a.m.-2:30 p.m. **Academy of Mechanical & Aerospace Engineers Spouse Program**
9:30-11:30 a.m. **School of Materials, Energy & Earth Resources Alumni Academy Meeting**, 124 McNutt Hall
11:30 a.m. **Psychology Advisory Board Meeting**
1-4 p.m. **Alumni/Student Golf Tournament**
(Call Student Union Board, 573-341-4220 or email sub@umr.edu to sign up.)
1-2 p.m. **COURSES WITHOUT QUIZZES:** Mucking and Mine Rescue Teams, Havener Center
1-2:30 p.m. **Order of the Golden Shillelagh Executive Committee Meeting**, Castleman Hall, 2nd floor Conference Room
2-3 p.m. **COURSES WITHOUT QUIZZES:**
Storming the Beaches, a look at the D-Day landing and other historical events, with John McManus, assistant professor of history and political science, Havener Center
2:30-3:30 p.m. **Section Leaders Session for section officers**, Havener Center, presenter: Stephanie Martensen, UMR Alumni & Constituent Relations Office
2:30-3:30 p.m. **Computer Science research group presentations**, 327 Computer Science
3-4 p.m. **Iron pouring demonstration**
Foundry in McNutt Hall
3-4:30 p.m. **Chemistry Alumni Social**, 121 Schrenk Hall, followed by seminar at 3:30 p.m., G3 Schrenk
3 to 4:45 p.m. **DEPARTMENTAL OPEN HOUSES**

- Biological Sciences, introduction of new chair Robert Aronstam, 105 Schrenk Hall
- Business, 101 Fulton Hall
- Ceramic Engineering, McNutt Hall, Quadrangle Area (McNutt Commons if bad weather)
- Chemical Engineering Alumni Reception, 145 Schrenk Hall

- Civil Engineering: 16th Annual Alumni Reception, Kummer Atrium, Butler-Carlton Hall — Sponsored by the Academy of Civil Engineers and hosted by the officers of the student chapters of ACI, AGC, ASCE, Chi Epsilon, EERI, IDC, ITE, WEF, and the Alumni Committee of the Civil Engineering Advisory Council).
- Computer Science, tour of the research labs starting at 3:30 p.m., 327 Computer Science
- Economics and Finance, 101 Fulton Hall
- Electrical and Computer Engineering, Emerson Electric Company Hall First Floor Lobby
- Engineering Management, Engineering Management Building foyer
- English, Humanities-Social Sciences
- Geological Engineering, McNutt Hall Commons Area
- Geology & Geophysics, McNutt Hall Commons Area
- History, Humanities-Social Sciences
- Information Science and Technology, 101 Fulton Hall
- Management Systems, 101 Fulton Hall
- Manufacturing Engineering, McNutt Hall Commons Area
- Mathematics and Statistics, 202 Rolla Building
- Mechanical and Aerospace Engineering, 210 Mechanical Engineering Building
- Metallurgical Engineering, McNutt Hall Commons Area
- Mining Engineering, McNutt Hall Commons Area
- Nuclear Engineering, McNutt Hall Commons Area
- Petroleum Engineering, McNutt Hall Commons Area
- Philosophy, Humanities-Social Sciences
- Psychology, G7 Humanities-Social Sciences
- School of Materials, Energy & Earth Resources, McNutt Hall Commons Area

3:30-4:30 p.m. **Alumni Assisting with Admissions.**
All Admissions Ambassadors and alumni who would like to help UMR with recruiting efforts are invited, UMR Admissions & Student Financial Aid Office
4-5 p.m. **Physics Seminar**, "There and Back Again: A Physicist's Journey," with Jeff Schroeder '95, 104 Physics
5-5:45 p.m. **GRAND OPENING – HAVENER CENTER.**
Celebrate the grand opening of the Havener Center, the 100,000-square-foot facility that will house all student services in a single building.



5:45-10 p.m.

SILVER & GOLD LUAU FEATURING RELATION, Havener Center

Reception and buffet begin at 5:45 p.m. Show starts at 7 p.m. Tickets required. Admission price includes the buffet, show and two drink tickets. MEP 30th Anniversary participants will have a reserved room during the Silver and Gold event.

7-10 p.m.

Relation takes the stage. Relation is a dance band based in St. Louis and provides great dance music from oldies, Motown, country, classic rock and disco.

8 p.m.

Physics Alumni Reception, home of Ed and Barbara Hale, 821 Oak Knoll Road

Saturday, October 16

8-10:30 a.m.

HOMECOMING REGISTRATION continues in Miner Lounge, UC-E

8-10:30 a.m.

UMR Archives "Memories" Display, Miner Lounge, UC-E

8-11 a.m.

Alumni Association Board of Directors Meeting, Missouri Room, UC-E

9 a.m.-11 a.m.

Teacher Education Alumni & Friends Brunch (call Evalee Lasater at 573-341-4692 for reservations)

9-11 a.m.

COURSES WITHOUT QUIZZES:

Meet more of our student design teams, Havener Center

10-10:45 a.m.

Greek Life at UMR: A forum on the current issues facing Greeks with Matt Goodwin.

10:30-11:30 a.m.

Chancellor's Reception at the Chancellor's Residence, 506 W. 11th St., hosted by Chancellor Gary Thomas and his wife, Dr. Barbara Tedesco

11 a.m.-1 p.m.

UMR Athletic Hall of Fame open to visitors, Gale Bullman Multi-Purpose Building

11 a.m.

Silver Anniversary Recognition Ceremony for the graduates of the Class of 1979 at the All-Alumni Reunion Lunch (more information below)

11 a.m.-1 p.m.

ALL-ALUMNI REUNION LUNCH. CLASS PICTURES WILL BEGIN AT 11:30 A.M.! for all alumni, family and friends, Havener Center. Features reserved seating for the reunion classes of 1953 and before, 1954, 1959, 1964, 1969, 1974, 1979, 1984, 1989, 1994, 1999 and 2004. MEP also will have a reserved table during this event.

SPECIAL REUNION FOR MEP

The Minority Engineering & Science Program will celebrate its 30th anniversary with special activities during Homecoming. On Oct. 15, MEP participants will have a reserved room during the Silver and Gold Luau. Cost is \$22.50 per person. On Saturday, a formal MEP 30th anniversary reception will be held, followed by a banquet and recognition ceremony in the Havener Center. For more information, contact Floyd Harris at (573) 341-4212.

1 p.m.

Football Kickoff - MINERS VS. WASHBURN Allgood-Bailey Stadium

4:30 p.m.

MEP 30th anniversary reception, followed by MEP 30th anniversary banquet, Havener Center

4-5 p.m.

Miner Music Section Meeting, 138 Castleman Hall (Choir Room)

5 p.m.

Mass at St. Patrick Catholic Church, followed by a Wine and Cheese Social at the Newman Center

5 p.m.

College of Arts & Sciences Alumni Reception, Havener Center

6:15 p.m.

CASH BAR RECEPTION, Havener Center

7-9 p.m.

ALUMNI ISLAND AWARDS BANQUET, Havener Center — followed by the

MSM-UMR Alumni Association Annual Meeting

Time TBA

Epsilon Psi Chapter of Alpha Phi Alpha Fraternity, Black & Gold "Miss Epsilon Psi" Ball and Step Show, location and cost TBA, contact Andrew T. Cleveland at atc7vc@umr.edu or (573) 341-9827 for reservations and information.

Sunday, October 17

8 a.m. to 1 p.m.

College of Arts and Sciences Dean's Advisory Committee Meeting, Havener Center

1 p.m.

UMR Advisory Committee for African-American Recruitment and Retention Meeting, Havener Center



Class of 1979

To celebrate 25th in style

In recognition of members of the Class of '79 achieving the status of "Silver" alumni, a special pinning ceremony will be held at 11 a.m. at the start of the All-Alumni Reunion Lunch on Saturday, Oct. 16, in the Grand Ballroom of the Havener Center. Special memory booklets (these must be preordered from the MSM-UMR Alumni Association) will be distributed at this time.



AWARDS BANQUET

Come out and support your outstanding fellow alumni during the Alumni Island Awards Banquet Saturday night. The evening begins with a cash bar reception at 6:15 p.m. in the Havener Center, followed by the awards banquet from 7 p.m. to 9 p.m. Cost is \$26 per person, \$13 for Golden Alumni.



COURSES WITHOUT QUIZZES:

MEET OUR NATIONAL CHAMPION STUDENT DESIGN TEAMS

Several student design teams are geared up to show you what makes them a success. These students work together in their free time to create award-winning designs.

On Friday, the line-up includes:

- 1-2 p.m. ALOHA COURSES from our Mucking and Mine Rescue Teams, Havener Center
- 3-4 p.m. IRON POURING DEMONSTRATION, Foundry in McNutt Hall

On Saturday, the line-up includes:

- 9-11 a.m. ALOHA COURSES. Come say hello to several of our student design teams, Havener Center

Don't forget to get your souvenir!

Homecoming T-shirts are available in both yellow and blue. The front of the shirt will read "alumni."

Orders and money are due to the Student Union Board office (218 UC-West, UMR, Rolla, MO 65409) no later than Sept. 14. Please make checks payable to Student Union Board.

Name _____
Address _____
City, State, ZIP _____
Email Address _____
Phone _____

Order online at
www.alumniconnections.com/register/umr/

front



back

Quantity

Blue Shirts

Size

Small _____
Medium _____
Large _____
X-Large _____
XX-Large _____

Yellow Shirts

Small _____
Medium _____
Large _____
X-Large _____
XX-Large _____

TOTAL _____

Shirts Sized S-XL are \$12 each, XXL are \$13 each.

HOMECOMING 2004 TICKETS

Oct. 15 and 16, 2004

Friday, Oct. 15: Silver & Gold Luau featuring Relation. 5:45 to 10 p.m. Friday, Oct. 15, Grand Ballroom, Havener Center. Buffet includes roast pig, rice pilaf, honey glazed carrots, green beans almondine, tropical fruit salad, garden salad, dinner rolls and for dessert a lava flow of chocolate with fruit, cake and other tasty treats for dipping. The ticket includes the buffet, band, dance and TWO free drinks. Cash bar will be available. **\$22.50 per person; \$13.25 for Golden Alumni** (those who graduated 50 or more years ago)

Saturday, Oct. 16: All-Alumni Reunion Luncheon with CLASS PHOTOS. 11 a.m. to 1 p.m. Saturday, Oct. 11, Grand Ballroom, Havener Center. Pastabilities buffet includes Italian salad, garlic bread, penne and bow tie pasta, Marinara sauce with meat, Alfredo sauce, broccoli florets, and peas and bacon. Event begins with Class of 1979 pinning ceremony. REUNION CLASS PHOTOS WILL BE TAKEN AT 11:30 A.M. DURING THIS EVENT! Features reserved seating for the reunion classes of 1954 and before, 1954, 1959, 1964, 1969, 1974, 1979, 1984, 1989, 1994, 1999 and 2004. **\$10 per person; \$5 for ages 7 to 12 and Golden Alumni; under age 7, free**

Saturday, Oct. 16: Football Game: Miners vs. Washburn. 1 p.m. Saturday, Oct. 16, Allgood-Bailey Stadium. **\$5 per person; Free for under age 7 and Golden Alumni**

Saturday, Oct. 16: Alumni Island Awards Banquet. 6:15 p.m. reception with cash bar; 7 p.m. dinner; Havener Center. Dinner includes chicken Wellington, seasoned potatoes, steamed broccoli with lemon butter, Caesar salad, rolls and Chef Vincent's dessert. **\$26 per person; \$13 for Golden Alumni**

Tickets for all events: \$63.50 per person*
*Golden Alumni (those who graduated 50 or more years ago) receive a reduced price for the above events. Golden Alumni may attend the events above sponsored by the MSM-UMR Alumni Association for half price. (The football game is free for our Golden Alumni.)
LIMIT TWO REDUCED PRICE TICKETS PER EVENT FOR EACH GOLDEN ALUMNUS/A. Tickets for all events for Golden Alumni: \$29.25

Total amount due \$ _____

To order your tickets:

Via the Web: Go to www.alumniconnections.com/register/umr/

By Phone: (573) 341-4145, 8 a.m. to 5 p.m., Monday-Friday (have your credit card handy)

By Fax: (573) 341-4706, 24 hours a day (include your credit card information)

By Mail: Send in this form: Alumni Office, UMR, Castleman Hall, 1870 Miner Circle, Rolla, MO 65409-0650

Name _____
Class year _____ Major at MSM-UMR _____
Guest's name _____
Class year of guest (if MSM-UMR graduate) _____
Address _____
City/State/ZIP _____
Home phone _____ Work phone _____

☐ My check is enclosed and made payable to the MSM-UMR Alumni Association

☐ Please charge to my credit card:
____ Visa _____ MasterCard
____ Discover _____ American Express

☐ I have special dietary needs. Please arrange for my meals to be: _____

Please name the professor whom you would most like to see at Homecoming: _____

Information:
PHONE: 573-341-4145 • FAX: 573-341-4706 • Email: alumni@umr.edu



Member Benefits

As a graduate of MSM-UMR, you are automatically a member of the MSM-UMR Alumni Association and are entitled to:

MSM-UMR:

Chairs, lamps, watches, rings, pendants, Platinum/Gold MasterCard, license plates for Missouri residents.

Career Assistance:

UMR's Career Opportunities Center will help you in your job search!

Services:

Online Community, including searchable directory. Access to alumni office via email (alumni@umr.edu).

Alumni locator service to help you find friends.

Address update service so you don't miss your MSM-UMR mail.

To take advantage of these offers, contact the alumni office:

MSM-UMR Alumni Association
Castleman Hall
University of Missouri-Rolla
1870 Miner Circle
Rolla, MO 65409-0650

Phone: (573) 341-4145
Fax: (573) 341-4706
Email: alumni@umr.edu
Web: alumni.umr.edu

Alumni Alliance honors Fred Kummer

Photo by Bob Phelan/Photomasters



Fred Kummer

Fred Kummer, CE'55, founder and CEO of HBE Corp. in St. Louis, was one of six individuals honored for outstanding service to the University of Missouri by the University of Missouri's Alliance of Alumni Associations during the 30th annual Legislative Day held Feb. 25 in Jefferson City. Kummer was cited for his five years of service on the UMR Board of Trustees and his six-year tenure on the UM Board of Curators (1987-1993).

At UMR, Kummer is the recipient of an Alumni Achievement Award from the MSM-UMR Alumni Association, is an Honorary Knight of St. Patrick, and is a member of the Academy of Civil Engineers. He also is a founding member of the Order of the Golden Shillelagh, UMR's major-gift recognition society, and is a member of the Clagh of the Emerald Isle.

Pi Kappa Alpha Annual Grains and Grapes BBQ

The second annual Pi Kappa Alpha Grains and Grapes BBQ was held on Sept. 20, 2003, at the home of **Al**, '57, and **Joan Wentz** in Edwardsville, Ill. Alumni and family feasted on pork and chicken BBQ, as well as a wide variety of other delicious foods. A commemorative cake topped off the evening. Of course, the ample adult beverages were based on grains and grapes.

The next Grains and Grapes BBQ will be held at 3 p.m. Saturday, Aug. 21, 2004, at the same location. Any alumni interested in attending this annual event, please call (618) 692-1231 or email jdomigan@aol.com.

Those attending included Bob Carr '57; Jack Howard '68; Bob Kallemeier '62; Art Kruger '58; Don Myers '61; Chuck Poe '54; Marv Ringer '57; Jim Urban '58; Don Weisenstein '58; Al Wentz '57; Les Winter '58; John Wolf '64 and Dave Zimmerman '89.



Front row: Don Myers, Don Weisenstein, Jim Urban, Marv Ringer. Second row: Al Wentz, Chuck Poe, Bob Carr, Les Winter, Jack Howard. Third row: Art Kruger, Dave Zimmerman, John Wolf, Bob Kallemeier.

MSM-UMR Alumni Association Mission and Goals

MISSION

The association will proactively strive to create an environment — embodying communication with and participation by MSM-UMR alumni and friends — to foster strong loyalty to UMR and growth of the association. The association will increase its financial strength as well as provide aid and support to deserving students, faculty, and alumni friends.

GOALS

- Assist university with recruitment and retention.
- Improve communication with and expand the involvement of alumni, especially recent graduates and current students.
- Increase financial resources of the association and the university.
- Strengthen alumni section activity.
- Increase volunteer support to the university and its students.

The officers and other members of the association's board of directors provide leadership and actual participation to achieve these goals and fulfill this mission. For their efforts to be a success, they need YOUR active participation as well, in whatever alumni activities you choose.





MSM-UMR Alumni Association Scholarship Recipients 2004

These scholarship recipients are among the 279 students who receive scholarship support and financial aid from the MSM-UMR Alumni Association each year. The association provided \$503,560 for scholarships, educational assistance, student work programs and student loans during the 2003-2004 academic year.

145 graduates enjoy spring pizza party

Close to 150 graduating seniors attended the Senior Pizza Party in the alumni lounge on Thursday, May 6.



May 2004 graduates enjoy spring Ozark weather, in addition to free pizza and soda.

They enjoyed free pizza and soda, compliments of the MSM-UMR Alumni Association.

Susan Watson

'83 continued her support of this event by donating a PDA for the grand door prize, with Nicole Brossier, a chemical

engineering major, being the delighted winner. Other seniors went home happy with door prizes, thanks to **Bob Berry '72**, who generously donated picture frames, survival tools and seat cushions, compliments of Burns and McDonnell.

Graduates were welcomed into the alumni association family and given a membership kit with information about alumni benefits. All seniors who attended commencement on May 15, received a diploma case courtesy of the MSM-UMR Alumni Association.

A PUBLIC SERVICE ANNOUNCEMENT

OPEN IN AUGUST



HAVENER CENTER

COMING SOON... Even More At UMR Bookstore

UMR Bookstore will move into the Havener Center in early August. Enjoy shopping a larger selection of books, school supplies, UMR merchandise and computer equipment.

there's more...

UMR BOOKSTORE

University Center West on the UMR campus (until early August)
(573) 341-4705 • Toll-free 1-866-535-3770 • www.umarbookstore.com
M-F 8-6; Sat. Noon-4 • The official bookstore of UMR



AIR CAPITAL

Wichita Thunder fails to crash Oklahoma Blazers

Alumni from the Air Capital Section gathered at the Kansas Coliseum on Jan. 23 with hopes of cheering on their home team, Wichita Thunder, to victory over their rival Oklahoma City Blazers. Even though the spirits of the Rolla Miners were high, hopes of the Thunder winning were crashed when the Blazers beat the hometown team, 4-2.

Many thanks go to Sean Daly for organizing and hosting this event.

Those attending included Sean Daly '96; Rob Davis '01; Ken Drake '75 and family; David '95 and Melissa '96 Herberger with two guests; Jennifer Marshall '96 with guest and Willis '73 and Nancy Wilson.

Rolla Miners visit space in Kansas

Hoping to bring out more MSM-UMR alumni and their families, the Air Capital Section hosted a trip to the Kansas Cosmosphere and Space Center in Hutchinson, Kan., on Feb. 21. The trip included an IMAX film, planetarium show, Dr. Goddard's Lab, the Hall of Space Museum and access to the hands-on activities scheduled throughout the facility. What better way to get young children interested in science, and the opportunities available at UMR, than to start with activities at home! Members of the section hope to make this an annual event, with anticipation that interest will continue to grow each year.

Many thanks go to Sean Daly for planning and hosting this event.

Those attending included Sean Daly '96; John Goethe '92 and Steve Smith '65 and Kenneth Swope '93 with daughter.

WE WANT YOUR NEWS

Submit your Section News and Alumni Notes, by July 25, 2004, to alumni@umr.edu for inclusion in the winter 2004 issue.

ARKANSAS

Arkansas welcomes Thomas to dinner

In an effort to promote section activity in the Little Rock, Ark., area, Chuck Germer worked with the alumni office to host a dinner event featuring Chancellor Gary Thomas as special guest speaker. The group gathered at the Pleasant Valley Country Club on Jan. 15 to talk about times past in Rolla and to learn of new advantages for today's students. Thomas shared the excitement of the UMR Solar Car Team victory, positive news regarding increased student enrollment and retention, and new building and landscaping plans.

Special thanks go to Germer for his assistance in coordinating and hosting this event.

Those attending included Judy Cavender of development; John Fitzpatrick '83; Chuck Germer '55; Cal Heseman '72; Jim '77 and Dianne '78 Lincicome; Dannette Rook; Ray Russell '49; Ben Stewart '67 and Chancellor Gary Thomas.

ARK-LA-TEX

Ark-La-Tex adjusts attitude toward winter blues

Twenty-five alumni and guests attended the Ark-La-Tex Section's annual meeting Jan. 17. John Livingston hosted "attitude-adjustment hour" at his lovely home in Elm Grove, La. The group then traveled to Bossier City, La., for dinner at Ralph & Kacoo's followed by a brief business meeting. UMR development officer Louise Morgan was on hand to update the group on current events on campus.

Special thanks go to Jerry Poland and Kenny Cochran for organizing and hosting this event.

Those attending included Lincoln '02 and Connie '02 Bauers; Phil Browning '48; Helen Bruening; Elmond Claridge '39 and Claire Patterson; Clydell Compton; Steve Durham '91 and Jennifer Carter; Kenny '83 and Beth Cochran; Scotty '01 and Theresa Gerbes; Ernie Green '70 with Blake; Rande '73 and Judy '74 Grotefendt; John Livingston '39; Louise

Morgan; Loretta Moscare; Louise Patton; Jerry '82 and Tammy Poland; Erin Swearengen '02 and Mike '77 and Debbie Weiss.

CHICAGO

Windy City recruits potential Miners

Thanks to the efforts of Bob Saxer, alumni and potential students were able to meet at St. Charles East High School Feb. 24 to talk about the benefits of attending UMR.



Chicago alumni gather at St. Charles East High School to share their Rolla experiences with potential future Miners.

Following a detailed overview of campus by Sarah Salmons, assistant director of freshman admissions, alumni shared their thoughts on the value of their degree and their current career paths.

Those attending included John Berger '68; Paul Braddock '78; Randy Hauser '83; Stephanie Martensen of alumni relations; Alexandria Merritt '03; Bob Morrison '71; John Remmers '84; Sarah Salmons of admissions; Bob Saxer '61 and Steve Schade '74.

CINCINNATI AND DAYTON

Cardinals beat Reds with biggest crowd ever

Cincinnati/Dayton alumni had their biggest event ever on Aug. 30, 2003, with more than 50 people attending. The group started the



Cincinnati/Dayton alumni cheer on the Reds with hopes of a Cardinal defeat.

evening with dinner at the Hofbrauhaus in Newport, Ky. After walking over the Purple People Bridge to Cincinnati, Miners and guests witnessed a St. Louis Cardinals win over the Cincinnati Reds at the brand new Great American Ball Park. Even though it was crazy with so many people in attendance, everyone had a grand time.

Many thanks go to Bret and Gina Baldwin for coordinating and hosting this event.

Those attending included Gina '93 and Bret '93 Baldwin with two guests; Suzanne '93 and Nat Brooks; David Cornell '86; Susan '87 and Daryl Fultz; Lamar '95 and Vicky '92, '94 Gerber with baby; Greg Glodowski '93 with three guests; Jay Jones '71; Serena Krause '98 with eight guests; Jay Krull '87; Nancy Lanphear with eight guests; Dick '58 and Julie Okenfuss; Matt Seabaugh '94 with three

guests; Mike '75 and Susie Sheridan; Gary '66 and Pat Turner; Rick '87 and Jean Volk; Bob '70 and Carolyn Wilmesherr and Tom '69 and Judy Zenge.

Valley Vineyards hosts annual event



Bret and Gina Baldwin open their home to Cincinnati/Dayton alumni for good cheer and even better Rolla stories.

On Nov. 8, 2003, the Cincinnati/Dayton Section had its annual fall dinner at Valley Vineyards. After cooking their own steaks and sampling delicious wines, guests went to Bret and Gina Baldwin's home to relax and talk of their times in Rolla. As a special edition to the evening, Jay Jones brought the current UMR recruitment presentation to share with the section.

Thanks goes to Bret and Gina Baldwin for coordinating and hosting this annual event.

Those attending included Rob '86 and Margaret Bailey; Bret '93 and Gina '93 Baldwin; Dave Cornell '86; Jay Jones '71; Jay Krull '87; Randy Schuetz '83; Bob '51 and Bev Shields; Jim '66 and Renee West; Bob '70 and Carolyn Wilmesherr and Tom '69 and Judy Zenge.

DENVER

Miners meet in Denver for SME conference

Several MSM-UMR alumni gathered for a special reception hosted by the MSM-UMR Alumni Association and the School of Mines and Metallurgy dean's office on Feb. 24. The Denver reception was held in conjunction with the annual meeting and exhibit of the Society for Mining, Metallurgy and Exploration. Attendees connected with other alumni from around the world, talked up their times in Rolla and chatted with current faculty and staff from UMR.

A special thanks goes to Dave Bufalo for serving as the master of ceremonies during this reception.

Those attending included Steve Batts '82; Tim Beck '00; Ed Benn '63; Gen Bodnar '98, '01;

(continued on page 38)

Career Fair continues to draw alumni back to Rolla

Close to 100 alumni returned to UMR for the Spring Career Fair, held Feb. 10-11. Although the total number of companies was down slightly from last spring, those present were looking for Rolla students to fill their open positions.

Many of the alumni who returned to campus joined UMR faculty and staff for a reception on the evening of Feb. 10. The event was hosted by the Career Opportunities Center and the MSM-UMR Alumni Association.

Those attending included Scott Adams '93; Jill Akers '99; Sarah Albers '02; Nicole Anglin '03; Craig Barnes '78; Jim Bicklein '87; Dallas Blasdel '03; John Boschert '99; Bruce Bowermaster '80, '84; Stephanie Buffa '03; Mike Butchko '03; Matt Coco '66; Joe Cooksey '97; Tiago Da Rocha '02; Daniel Davis '03; Jeff Diebold '00; Ryan Diekemper '03; Matt Doell '85; Jason Dohrmann '99; David Dorn '99; Mike Duello '84; Joe Echols '01; Daniel Ellis '99; Cecilia Elmore '86; Scott Essner '03; Anja Frauenberger '03; Sam Furfaro '03; Jason Gastler '00; Keith Gettinger '00; Brett Goodman '93; Tricia Grass '03;

Mike Hermesmeyer '71; John Hock '84; Jeff Hougland '01; Kevin Irving '94; Sarah Jamison '97; Jennifer Kinkead '00; Dan Koenigsfeld '02, '03; Ben Krocter '03; Ken Kozlowski '83; John Kullman '00; Brett Kunce '01; John Laschobuc '81; Anne Lamitola '00; Paula Lutz '76; Courtney McCoy; Pramodh Mereddy '00; Bruce Miller '80; Amy Milliken '02, '03; Lynn Miskell '83; Bill Nash '72; Jason Neely '99, '01; Eric Neuner '99; Tara Nolley '01, '03; Vernon Peters '75; Chris Philipp '82; Clayton Price '80, '85, '90; Steve Purdy; Chris Ramsay '83; Stephen Raper '85, '87, '89; Gary Rauls '70; V. Praleash Reddy '66; Kem Reed '84; Mike Richter '73; Curtis Robinson '01, '03; Matthew Ryan '01; Matt Sander '99; Heath Schaefer '03; Melissa Schwaller '02; Tisha Scroggin '02; Amy Sell '01; Jason Sherman '97; Josh Smith '99; Patrick Smith '96; Dan St. Clair '75; Libby Stephenson '02; Nicholas Streeter '01; Larry Taber '00, '01; Gary Tomlinson '98; Vasu Trisal '02; Nathan Turner '03; Mark Viox '80; Dale Waldo '81, '02; Megan Wissel '03 and Joe Young '02.



UMR Miners gather at the SME conference for alumni reception.

Chris Bollinger; Lou and Joy Boltik; Karl Brown '62; Dave Bufalo '66; Terry Bush '99, '03; Jon Carmack '98; Ray Chico '58; Garrett Cockrum; Joe Cohn; John Combs; Russ Dahlgren '82; Chris Davis; Vanja Dezelic '03; Pete Dubois; Steve Fiscor '86; Scott Geer; Scotty Gerbes '01; Scott Giltner '84; Katherine Glee; Tad Golosinski; Joe Hatfield '90; Gene Hites '75; Joshua Hoffman; Stephen Kan '00; Tim Kram '91; Adam Kresler; Jack Lutz '59; Daniel Marschke; Josh Martin; Kurt '85 and Joan Oakes; Jenna Ramsey; Randy Reed '88; Trish Robertson '99; Lee Saperstein; Jacob Scherer; Bill Schlittler '77; Bill Shepard '51; Neal Stanton '87; Nathan Steele '00; Catherine Skrzyniarz; Greg Sutton '88; Roger Taylor '72; Joel Warneke '01; Andy Williams and Brett '03 and Megan '03 Wissel.

Alumni gather a mile high to greet Floyd

Alumni from all University of Missouri campuses came together to welcome UM System President Elson Floyd during a reception Jan. 13 in Denver. Floyd served as a keynote speaker earlier that day during the Council for Advancement and Support of Education (CASE) VI District Conference in Denver, and later attended this special event with Denver-area alumni from all four campuses of the university system. Floyd spoke briefly about achievements within the University of Missouri system, focusing primarily on life sciences. Legislative issues were also addressed.

Those attending included Dave Bufalo '66; Tim Kram '91; Brennan Laird '03; Kelly Young '01; and from University Advancement — Andrew Careaga; Connie Eggert; Stephanie Martensen; Sara Mullen; Tom Shipley and Marianne Ward.

HOUSTON

Alumni participate in SPE petroleum career fairs

Hoping to inspire more students to embark on careers in the petroleum industry, Houston Section alumni represented the UMR geological and petroleum engineering and geology and geophysics departments at the annual petroleum career fairs sponsored by the Society of Petroleum Engineers Gulf Coast Section. The career fairs, held the week of Nov. 18, provided high school students and their parents with information on careers in the petroleum and energy industries, colleges and universities offering education in these disciplines, and information on scholarships and internships. More than 50 students and their parents discussed UMR's petroleum-related academic programs with MSM-UMR alumni.

Those attending included Tom Belsha '74; Warren Carroll '59; Mark Gredell '79; Curt Killinger '73, '80; Jim Medlin '67 and Walt Reed '69.

Alumni share experiences at area college fairs

More than 400 Houston-area students and their parents visited with MSM-UMR alumni last fall at area high school college night programs. Rolla was represented by an energetic group of 22 alumni, ranging 60 years of graduating classes, at 22 different events across the area. The alumni provided students with informational brochures on UMR and assisted in signing them up for campus visits and scholarships. The Houston Section alumni also shared their personal educational and career experiences with all students, from freshmen to seniors, who declared an interest in the numerous engineering, math and science, business, and social science career paths offered at UMR.

Special thanks goes to Curt Killinger for his continued hard work in coordinating all of these efforts.

Those attending included Rex Alford '40; Wayne '58 and Betty Andreas; Warren Carroll '59; Steve Curran '79; Brad Flauaus '94; Adil Godiwalla '67; Mark Gredell '79; Alan Hopkins '89; Curt Killinger '73, '80; Andy '01 and Molly '00 Laegeler; Rich Langenstein '87; Jim Medlin '67; Russ Pfeifle '74; Eric Potts '73; Larry '98 and Elizabeth '00 Ragsdale; Walt Reed '69; Rob Riess '79; Nicole Talbot '77 and Shannon Walker '97.

Crow shares changes with Houston alumni

Thanks to the tireless efforts of Perrin Roller and his assistant, Martha Gerdes, Houston area alumni welcomed Mariesa Crow, transition dean for UMR's School of Mines and Metallurgy, to the area for dinner and an update on the school. The Post Oak Grill provided the perfect venue for this special gathering Feb. 26. Crow discussed current organizational changes within the school. Current curriculum, summer programs and enrollment were all issues she addressed throughout the evening.

Those attending included Mariesa Crow; Brenda Hovak Diaz '82; Martha Gerdes; Joe Gladbach '79; Curt Killinger '73, '80; Ed May '83, '95; Louise Morgan of development; Zeb Nash '72; Ernie Onyia '78; Perrin Roller '80 and John Warner '70, '71, '87.

Houston hockey brings in large crowd

A rousing crowd of 41 MSM-UMR alumni and guests watched the Houston Aeros battle and defeat the San Antonio Rampage, 5-1, on Feb. 28 at the new Toyota Center. This was the 10th Houston alumni group to attend a hockey game.



Alumni cheer on their home team to a victory over the San Antonio Rampage.



Special thanks goes to Wayne and Betty Andreas for organizing and hosting this event.

Those attending included Wayne '58 and Betty Andreas with guests Robert and Betty Porche; Phillip '81, Kerry and Jeff Callen; Wade Daniluk '03; Dave '77 and Karen Fronick; David '81 and Matthew Gresko; Matthew '01, Sarah and Alex Hinson; Curt '73, '80, Marybeth, Catherine, and Joseph Killinger with guests Christopher and Jonathan Harding; Ed May '83, '95; Mike '81 and Susan '83 McCoy with guests Tony and Lisa Sappington; David '81, Daniel, Leah, and Samantha Nadel; Russ Pfeifle; Justin '99 and Melissa '97 Ryan; Mathew '98 and Marie Silver; Sarah Stark '03; Nicole Talbot '77; Ronn Umphrey '66 and Dave Warfield '74 and guest.

INDY

Indy parties over the holidays



Indy alumni gather at Easley Winery to celebrate their first anniversary as an official MSM-UMR Alumni Association Section.

KANSAS CITY

Miners visit Kansas City for MIAA tournament

In conjunction with the MIAA basketball tournament, MSM-UMR alumni gathered at Tanner's in downtown Kansas City, Mo., to celebrate the achievements of the UMR men's basketball team. Even though the crowd was small, the school spirit was unbeatable! Rolla Miners also had the opportunity to meet

alumni from several other schools participating in the tournament.

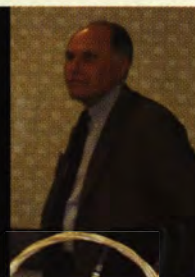
Those attending included Jamie Martens '98, '00; Dale and Janece Martin, with guests Randy Farris and Dave Owen; Matthew Brooks; Billy Key; Mark Mullin of athletics; Armin Tucker '40; Norman Tucker '40 and Marianne Ward of alumni relations.

LINCOLNLAND

Lincolnland hopes to bring students home to Rolla

Prospective students and their families gathered on Feb. 26 in Springfield, Ill., to learn about UMR. Five area alumni spoke of their

Ed Midden prepares to share his career path with potential new students in Springfield, Ill.



personal experiences and addressed the ways in which UMR continues to assist them in their careers. Thanks to the coordination of Ed Midden, the event was held in the National Electrical Council Building.

Those attending included Wesley Cattoor '03; Rich Eimer '71, Tom Feger '69; Stephanie Martensen of alumni relations; Ed Midden '69; Sarah Salmons of admissions and Amanda Withers '99.

PHOENIX

Stars shine brightly over Coyotes in Phoenix

Phoenix alumni and guests gathered together on Jan. 31 to watch the Phoenix Coyotes battle the Dallas Stars at the New Glendale Arena. The arena was only a month old at the time of this event! The Coyotes held on strong, but the Stars eventually won, 5-4.

Miner spirit continued to soar despite the defeat. There was plenty of good cheer and stories to keep the event going strong.

Thanks to Kerri Vencato for coordinating and hosting this event.

Those attending included Don Ascoli '69 with guest; Joseph Beatty '51 with two guests; Karl Brown '62 with guest; Brent Callen '89 with three guests; Bob Feugate '68 with guest; Jack Guth '50 with guest; Francis '01 and Jessica '01 Humble; Bryan Lewis '84 with guest; Gene Rand '62 with five guests; Don Spirk '65 with guest; Rodger Sturgeon '70 with guest; Jeremy Vandenbark '99 with guest and Kerri Vencato '00.

SPRINGFIELD

Thomas lights up vision for UMR in Springfield, Mo.

Springfield alumni heard a campus update from Chancellor Gary Thomas during breakfast at Hemingway's on Jan. 13. Alumni were particularly interested in how state funding reductions were affecting UMR and the current student population. Perhaps a decrease in funding also caused the couple of power outages experienced during the brunch, but all attending persevered and had a wonderful time sharing stories and memories of their time in Rolla.

Many thanks go to Kem Reed for hosting and coordinating this event.

Those attending included Jim Anderson '55; Chris Austin '86; Ed Ballantyne '60, '61, '89; Earl Burk '70; Judy Cavender of development; Jim Colwell '60; Bea Duddridge; Cheryl Espinosa '00; Pat Fort '88; Charles Harman '52; Greg Harris of development; Richard Kahl '63, '69; Fred Ipock '76; Bill Murray '68, '75; Bill Probasco, Kem Reed '84; Roddy Rogers '81, '83, '90; Tim Roth '84; Dale Sims '50; Chancellor Gary Thomas; Marc Thornsberry '83; Janice Towers; Terry Towers '65; Kyle White '03 and Bobby G. Wixson (professor emeritus).

St. Pat's 2004: most section events ever!

MSM-UMR alumni continued the tradition of celebrating St. Pat's 2004 all over the world. Even though many alumni were not able to return to Rolla, they brought the day of green home to their families and friends.

Alumni gathered for a record number of St. Pat's section events this year — 23 in all — showing that Rolla Miners continue to be proud of their traditions and their alma mater. Several sections were lucky enough to have representatives from campus join them in their celebrations.

Carolinas/Piedmont toasted the day with Vice Provost for Research and

Sponsored Programs Wayne Huebner, Kansas City partied with School of Engineering Dean Robert Mitchell and members of the

UMR Solar Car Team, Las Vegas brought home the green with UMR head football coach Kirby Cannon, and Maryland/Virginia/DC celebrated with Chancellor Gary Thomas. Many members of the University Advancement staff also traveled to different parts of the country to support St. Pat's and keep alumni informed of current events at UMR.

St. Pat's 2004 also served as the venue for a new section of alumni in Kentucky. Thanks to the efforts of Dirk Gowin '91, the Falls of the Ohio Section met on Wednesday, March 17, for the section's first organizational meeting. Alumni in Southern California and the Space Coast area of east Florida also met to stir up interest in forming official MSM-UMR alumni sections.

Clearly, MSM-UMR alumni continue to honor the traditions of their alma mater, as well as support the academic achievements of future Miners. Many thanks go to all alumni that were part of organizing and hosting their local St. Pat's events.



Photo by Bob Phelan/Photomasters

The arrival of St. Pat

Peoria, Ill., Feb. 8

Those attending included Dave '99 and Jill '99 Akers; Brian Call '97, '99; Rick Camper '70; Venkat Chander '02; Jon '66 and Pat Crabtree; Deb Ferner '79; Lyle Fricke '90; Wayne Grothaus '89; Keith Kauffman '02; Jim '76 and Debbie '76 Light; Srinivas Musti '02; Meghan Rogg '03; Matt Ryan '01; Fred Stackley '03; Colleen Stucker '00 and Trent Weaver '97.

California, March 6



Those attending included Dennis Cajili '85; Tad Graves '50; Stan '83 and Melissa Heaton; Dennis '78 and Nikki Heider with Denae; Christine '98 and Bob Kasitz; Harry Kruger '56; Ryan Mallery '03; Mike McGath '70; James Melland '86; Larry '75 and Pat Mertens; Diane

Moellenhoff '98; Miles Propp '99; Wade Reinheimer '76; Jerry Sewell '71; Scott Sharg '86, '88; Vic Tricamo '72; Ed '53 and Janet Tuck; Mandy Wedertz '99; Sue Winscher '72 and Mark '87 and Kristi Wutting.

Cardinals/Piedmont, March 6



Dallas/Fort Worth, March 6



Those attending included Kristina Allen '00, '01; Ginger Appleberry '00; Leah Battle '01; Glenn '83 and Mindy '84 Brand; Steve Chenoweth '71; Greg Copeland '77, '79; Tracy Donaldson '85; Terry '70 and Christine Durham; Steve Flowers '82; Kevin Hagan '80; Brian Jones '02; Chris '02, '03 and Becky '03 Keithley; John Latimer '66; Rick '75 and Val McLean; Chris Pundmann '97; Jim '67 and Dianne Scanlon; Jim Swinford '94 and Michael Tolbert '91.

Central Ozarks, March 13

Those attending included Ed Albee '78 and Sue; Mike Anderson '73; Kent '76 and Lindsay '76 Bagnall with daughters, Hannah and Lydia; Dick '51 and Shirley Bauer; Jerry Berry '49; Ronald Bieniek; Don and Nancy Brackhahn;



Jim Brady '90; Daniel Bohachick '99; Glenn '83 and Mindy '84 Brand; Matt Brooks; Mark Bruno; Eric Bussen '89; Brian Call '97, '99; Steven Calvin '73, '76; Andrew Careaga; Matt '66 and Kathy Coco; Jim '51 and Erma Cooper; Ken '74 and Kelsie Cropp; Bob Doerr '72; Randy Dudenhoffer '74; Betty Eyberg; Norman Fanning '49; John Gabbert '82; Rusty Goldammer '78; Lance Groseclose '80; Floyd Harris '74; Greg Harris; Paul Hartman '77; Mary Heagler; Dan '73 and Dee '75 Hinkle; Paul '95 and Julie '99 Hirtz; Al '85 and Sue '85 Hoppe; Burcu Kindir; Dave '82 and Kathy '82 Kusmec; Mildred Leaver; Neal Lewis '74; Pat Look '76; L.G. Loos '77, '82; Jennifer Lynch '74; Nancy Marlow '58; Robert '60 and Dorothy Marshall; Stephanie Martensen; Gene '70 and Linda McFarland with Todd; Jason '91 and Kathy McHaney with Patrick and Martha; Tom Mills '73; Jerry and Lynn Mirgain; Louise Morgan; Sarah Moore; Don Myers '61, '64; Jan Ostborg; John Park; Nick Quartier '80; Chris '83 and Darlene '84 Ramsay; Marsha Ray; Chuck Remington '49; Steve Rivers '84; Karl Schenk '76; Steve Spence '82; Don Spencer '52; Lynn Stichnote; Jason Stidham '97, '99; Mark Smith '80; Don Sparlin; Bill '95 and Mary Helen '95 Stoltz; Mike Tindill '77; Armin Tucker '40; Norman Tucker '40; Marianne Ward and Bill Zaner '74.

Cincinnati/Dayton, March 13

Those attending included Patrick '98 and Jennifer Anstaett; Bret '93 and Gina '93 Baldwin; Jay Jones '71; Mary '00 and Brent



Osborn; Steve Vrazalich '77; Bob '70 and Carolyn Wilmesheer and Tom '69 and Judy Zenge.

Kansas City, March 13

Those attending included Jim VanAcker '98 with guest; Kenneth Bandelier '97 with guest; Andrew Baughman; Craig Borgmeyer '88 with guest; John Byrne '68; Ken Drummond '86 with guest; Jim Dycus '66; Elaina Hurst '98; Kevin Johnson; Dean Robert Mitchell; Jason Nolte; Dan Riley; Aaron Steigerwalt '98 with guest and Megan Struttman.

Pacific Northwest, March 13



Those attending included Tim '90 and Kelly '88 Beckerle; Jack Bookey '50; Judy Cavender; Brian '01 and Erin '01 Chamberlain; Dan '86 and Kaori Crutcher; Pat '62 and Kay Duvall; Robert Gray '67; Sumant Hattikudur '88; John Keibel '66; Pete Malsch '62; Larry Leone '00; Missy McLean '99; John '78 and Sherrie Moore; Kris '89 and Bob Ridenour; Stephen Strauss '68; Gerri Tyler '71 and friend; Bob '72 and Linnea Volkmar; Tom '65, '66 and Alberta Woodall and Steve '68, '70 and Susan Wright.

Rocky Mountain, March 13

Those attending included Clarence '51 and Dorothy Babcock; Hugh '53 and Ann Blevins; Dave Bufalo '66 and Cynthia Powers;



George '75 and Elaine Carlstrom; Ray '59 and Beverly Chico; Terry '71 and Karen Donze; Dick '71 and Pam Douth; Jim '76 and Debra Dudley; Clancy '64 and Sharron Ellebracht; Kimberly Finke '96 and Eric Morrison; John Henry '66; Ronald Longwell Jr. '96; Jim Lundy '67; Casey '02 and Grace '02 Nordwald; Jerry '53, '54 and Virginia Plunkett; Marshall '76 and Barbara Shackelford; Roger '72 and Lynn Taylor and Dennis '72 and Renne Welker.

Space Coast, March 13

Those attending included John Ay '85; Charlie Graham '87; Dave '67 and Dianne Hoilman; Alan Hutchinson '02; Kurt Leucht '94; James Pappas '64; Mark '83 and Monica Poole; Don '61 and Barb Rueh; Warren '91 and Julie Unk and Landon '49 and Virginia Viles.

Springfield, March 13

Those attending included Earl Burk '70 and Richard Kahl '63.

Enchanted, March 14



Those attending included Fred Dickey '64; Roland '38 and Roger Freidank; Jesse Lai '02; Rick Newton '69; Todd Rastorfer '98; Patrick Schroeder '00 with fiancée Anne Hibbard; Don '69 and Pat Thalhammer and Ben Weidle '42.

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Lincolnland, March 16



Those attending included Brian Bradley '86; Jason '98 and Jenniffer Doyle; Derek Dressler '02; Rich '71 and Cathy Eimer; Tom Feger '69; Melvin Heisserer '78; Jerry Hirlinger '86; Gerry '62 and Rita Huck; Danny Kerns '74, '79; Jim '66 and Connie May; Ed '69 and Anne Midden; Rich '64 and Sandy Mochel; Jerry '70 and Mary Parsons; William '88 and Anna Sinnott; Steve '92 and Mary Starwalt; Will '66 and Carol Sudduth; Marianne Ward; Brad '01 and Amanda '02 Winters; Amanda '99 and Andrew Withers and Paul '72 and Roberta Zimmer.

Indianapolis, March 16



Those attending included Tim Alfermann '01; Tara Algreen '98; Don Bogue '55; John Brannon '85; Jeanne Duncan; Mark Jones '79; Roger '71 and Marilyn Jones; Cori Lock '02; Ken Pendleton '60; Don '58 and Shirley Pfanstiel; Aaron Rues '01; Nathan Rues '02; Les '66 and Linda Stewart; Joshua '00 and Dawn '99 Stuftt; Kurt Vogler '01; Joe Ward '72; Emily Wehmeyer '97 and Richard '70 and Sally Williams.

Falls of the Ohio, March 17



Those attending included James Abbott '75; Steve Bader '88; Paul Brown '86; David Chervek '87; Bob '61 and Polly DeSpain; Dirk Gowin '91; Gary Hamilton '71; Shannon '00 and Nancy '00 Knoepflein; Milt Leet '62; Pete '70 and Marylou '90 Legsdin; John '63 and Carola Lina; Stephanie Martensen of alumni relations; Marvin McKay '74; Tom Mesko '82; Bob Morfeld '69; Charles Parks '72; Tom '62 and Judith Phillips; Bart Potts '97 and fiancée; Don '59 and Kitty Werner; Bob '70 and Denise Wesely and Jeff Wood '92.

Phoenix, March 17



Those attending included Dave Akers '82; Francis '01 and Jessica '01 Humble; Brian Johnson '00; Bryan Lewis; Andy Nolfo '71; Gene '62 and Judy Rand; Bill '85 and Roni Ross; Bob '62 and Renee Tooke and Tom Wetteroth '79.

Las Vegas, March 19

Those attending included Coach Kirby Cannon from UMR; Amanda Ellsworth '02, '03; Jim Fitzpatrick '72; Tim Hagan '83; Dan Henry '65; Roger Keller '75, '82; Duane Marble '78; Linda Michaelson '80; Bill O'Neill '55, '60; Sean Price '77; Jenna Quigley '79, '84; Jim Saavedra '88; Ken Schulenburg '74; Charlie Vaughn '55; Leslie Winfield '76; Susan Winfield '86 and Jeff Wood '02.



Oklahoma, March 20



Those attending included Keith Bailey '64; Mike Baxter; Daniel Bohachick '99; Rich Brown '83; Preston Carney '02; Bob Fleischman '76; Matt Gebhardt '02; Russell Gund '40; Frank Marcott '82; Stephanie Martensen of alumni relations; Charlie McCaw '62; Angie Nappier of development; Polly Robinson '95; Brian Tipton '83 and Rob Young.

Air Capital, March 20

Those attending included Randy '76 and Rustin Atkeisson; Sean Daly '96; Rob Davis '01; Jarrod Grant '98; Graham '03 and Charla Hamilton; Kevin McGuire '03; Tony '98, Laura '99 and Annabelle McLaughlin and Matt Moseley '03.

Chicago Area, March 21



Those attending included Kathy '79 and Erik Anderson; Bill Bishop '71; Steve Dunkman '72; Deirk '85 and Maria '85 Feiner; Ben Goebel '00; Mark '94 and Melanie Goldsmith; Andrew '01 and Kelly Hastings; Joe Hettinger '94; Tim '85 and Marla '87 Jedlicka; Kerry '96 and Kathy Knott; Dennis '58 and Rhea Mason; Charles '92 and Julie Misner; Fred Niemeier '95; Sree Palepu '97; Parris Ng '00; Bob '61 and Linda Saxer; Clint '93 and Katy Scott; Jennifer Smith '92; Frank Watson '60 and Richard '59 and Sara Jane Wieker.

Houston, March 26



Those attending included Wayne '58 and Betty Andreas; Paul Balaster '02; Brenda Diaz '82; Kay Everett; John Furby '65; Robbie '02 and Margie '02 Gordon; Dan Hinkle '73; Dave '71 and Charlene Jones; Robert '00 and Erin Koch; Rita Kompa '80; Ed May '83, '95; Jim '67 and Carolyn Medlin; Hugh '74 and Jean Murray; Robert and Patty Porsche; Russ Pfeifle '74; Larry '98 and Elizabeth '00 Ragsdale; Matthew '97 and Gretchen '99 Riggs; Nicole Talbot '77; Herman '60 and Carol Vacca; Ted Vora '77 and Steven '85 and Desiree '86 Westcott with daughter Jasmine.

Bay Area, March 27

Those attending included Ed '73 and Suzette Blanke; Don '69 and Maureen Bourne; Alan '54 and Doris Burgess; Lereon Callaman; Tom Enderle '69; Steve Goldammer '73, '78; Brian Groff '99; Wally "Troy" Harper '53; Derek '97 and Katie '99 Hillstrom; Ymimi Larrugue; Dennis '76 and Pam '75 Leitnerman; Jud Leong '54; Jerry '58 and Kay Littlefield; Don '62 and

Barbara Marsinkavage; Dean Mielke '83; Hal '88 and Kerstien '88 Padgett; Scott Patterson '73; Dave Peacock '64; Dave Robinson '85; Paul Robinson '53; Diane Sauer; Rich Starke '71 and Dinesh Venkatachalam '87.

MD/VA/DC, March 27



Those attending included Robert '69 and Vicki '70 Andreae; Lindsay Bagnall '76 of alumni relations with daughter Lydia; Mike Becvar '94, '96; Sara Chiado '01; Judy Cavender of development; John Cummings '74; David '96 and Jodie Dajc; Sam '57 and Shirley DiBartolo; Brad Fulton '88; Ed '71 and Catherine '72 Henson; Jessica Henson '03; Doug Hughes '63; Jim '75 and Karen Martin; Chris Mayberry '98; Wilbur '60 and Sharon McBay; Terry '78 and Susan McCallister; Charles McGrady '67; Sanjay Nayar '93; John '93 and Kelly Olszewski; Joe '92, Amy, and Nate Schumer; Mihai Sirbu '93; Joseph Stahl '69; Ed '61 and Judy Stigall; Chancellor Gary Thomas; Franklin Woodbury '66 and John Zedalis '52.

Photos by Bob Phelan/Photomasters



Scenes from Rolla's St. Pats 2004

19 30s

1934

Thomas Stewart Jr., ChE: "I had a nice visit with Maggie Morrison from the UMR development office. She brought me up to date on campus activities. I turned 90 in October."

1939

Edgar S. Miller, CE: "Peg and I had a good 'ship trip' from Rochester, N.Y., to Burlington, Vt., via the Erie Canal, Cayuga Lake, the Hudson River and Lake Champlain Canal. We tied for third in the putting contest held atop our ship on Cayuga Lake. It was won by two lefties."

19 40s

1941

Hermann F. Bottcher, ME: "I have graduated to using a cane, but still playing golf."

1943

Gabe Skitek, EE, MS EE'49: "Edith and I now live in Nixa, Mo., so we could be close to our daughter and family. Edith fell and fractured her spine in March 2003. She is able to get around a little with a walker."

1944

Philip M. Dampf, MetE: "I retired in 1988, after 44 years of operating electrolytic plants. Mary Lou and I picked Knoxville, Tenn., for our retirement home and are enjoying the attractive mountains, rivers and lakes with our children." • **Kenneth W. Schoeneberg, CE:** "I have been restricted to home since February 2003. I have lung problems and am on oxygen 24 hours a day. I also have to use a walker to get around, so I will have to miss my usual trip to Rolla. I turned 83 in November."

1947

William P. McKinnell Jr., MetE: "Marilyn and I have become snow birds. We spend our winters in Tucson, Ariz., from Oct. 15 through April 15."

19 50s

1950

Eugene A. Bartels, CE: "I just attended my 60th high school reunion in Edwardsville, Ill. We spent a week in Estes Park, Colo., and celebrated our 52nd anniversary in August." • **Russell Day, CE:** "I renewed my PE license for Missouri and Illinois so I can do small engineering projects for friends." • **Harold E. Tibbs, GGph,** and his wife, Florence, are spending their 39th year in Las Vegas — 13 years in retirement from his position as manager of mining at the Nevada Test Site Nuclear Testing Program. Both are still in excellent health. • **Franklin W. Wyatt, ChE:** "I am in my 15th year of retirement and enjoying it more and more."

1951

Paul S. Pender, ME: "My wife, Evelyn, passed away on April 13, 2001. She has a memorial scholarship fund at Central Michigan University in Mount Pleasant, Mich., for aspiring speech therapists."

1952

Don D. Matson, GGph: "My wife and I recently celebrated our 50th wedding

anniversary. We are still actively working, traveling and enjoying life."

1953

Joe B. Reynolds, CE: "My wife, Delores, and I had a wonderful time at the 1953 class reunion in June, thanks to the alumni association."

1954

Daniel Groteke, MetE: "I was recently issued my 16th U.S. patent. I continue to maintain an active consulting business and sales of proprietary equipment to the foundry and die casting industry."

1955

James W. Rethmeyer Jr., CE: "I retired in September 1993. I am enjoying grandchildren, gardening and traveling."

1957

Edward B. Campen, CE: "Since graduating from Rolla, we are now celebrating 45 years in the oil and gas business and still working for that big gusher." • **Carl J. Thye Jr., CE:** "I have been retired for nine years. I reside in North Carolina where I do some consulting work on a limited basis."

(continued on page 46)

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the state of Missouri, you
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FUTURE MINERS

Melissa Corkill, CE'91, and her husband, Kent, had a boy, Kyle, on May 25, 2003. He joins brother Grant.

Kevin Daniels, ME'03, and his wife, Tiffany, had a boy, Kaden, on June 17, 2003. He joins sisters Kailyn and Cami.



Clay Dedrick
and parents

Ellen Dedrick (Brown) EMgt'92, and her husband, Tim, had a boy, Clay Richard, on March 1, 2003.



Hannah Elbert

Gary Elbert, EE'91, and his wife, **Jane (Dey)**, ChE'91, had a girl, Hannah Renae, on May 20, 2003.



William Fiechtl

Jim Fiechtl, LSci'96, and his wife, **Rebecca (Light)**, EE'95, had a boy, William Francis, on Feb. 17, 2003.

Ted Hilmes, EE'92 and his wife, Brianna, had a girl, Rebecca Joan, on July 31, 2003. She joins sisters Mary Katherine, 7, and Johanna Rose, 5.

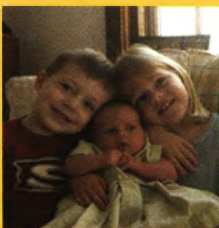
David Howell, EE'94, and his wife, Lisa, had a boy, Matthew Carlton, on June 18, 2003.

Edward Kammerer, ChE'85, and his wife, Sandy, had a boy, Logan James, on Jan. 8, 2003. He joins Lauren, 7, and Lucas, 5.

Steven G. Klump, ME'92, and his wife, Andrea, had a boy, Nathan Daniel, on Oct. 6, 2003. He joins sisters Emily Catherine and Whitney Juliana.

Kirk Meinershagen, ChE'96, and his wife, Rachel, had a boy, Ethan, on Jan. 28, 2003.

Donna Mosley, CE'74, and her husband, Ken, had a boy, Christopher Charles, on April 21, 2003. He joins sister Jacqueline.



Jacob, Isabelle and Mikaela Peters

Sean Peters, GeoE'96, and his wife, Jennifer, had a girl, Isabelle Grace, on Feb. 20, 2004. She joins brother, Jacob and sister, Mikaela.

Michael Rakonick, CE'94, and his wife, Karen, had a girl, Margaret Hope (Maggie), on April 5, 2003. She joins brother Nicholas.

Gerhardt J. Rodenberger, CE'94, and his wife, Amy, had a girl, Tess, on July 25, 2003. She joins brothers Charlie and Will.

Steve Schreiber, EMgt'89, and his wife, Wendy, had a girl, Elizabeth Allison, on Jan. 23, 2004. She joins brother Matthew.

Dave Sipp, EE, Math, CSci'96, MS EE'98, and his wife, Michelle, ChE'98, had a girl, Emily, on March 20, 2003.

Lenard Smith, NucE'92, and his wife, Julie, had a boy, Maxwell Franklin, on July 31, 2003.



Nathaniel Trotter

Elizabeth (Hunzinger) Trotter, ChE'03, and her husband, Jonathan, had a boy, Nathaniel Mark, on February 20, 2004.

Kenneth Voss, CE'96, and his wife, Susan, had a boy, Noah Michael, on July 3, 2003.

James Whorton, EMgt'90, and his wife, Amy, had a girl, Cassidy Christine, on April 20, 2003. She joins brothers Nicholas, 3, and Cooper, 16 months.

Jonathan Winter, ChE'96, and his wife, Crystal, had a boy, Elijah Levi, on June 27, 2003.

Weddings

Adam Chamberlain, CerE'02, married **Evelyn Barnes**, ChE'02, on Oct. 4, 2003.

Chris Day, ChE'00, married Christy Parker on Jan. 4, 2003, in New Orleans.

Thomas Evers, CE'99, married Sara Kukuczka on Aug. 23, 2003.

Toby Kemper, CE'01, married Della Lutz on April 13, 2002.

Molly A. (White) Kerr, AE'99, married James Kerr on March 15, 2003. They reside in La Verne, Calif.

Daniel J. Koenigsfeld, CE, MS CE'03, married Stephanie Hammann on Oct. 4, 2003.

Tim Schmidt, CE'01, married **Ann Papke**, EMgt'00, on June 14, 2003, in Iowa City, Iowa. The couple resides in Columbia, Mo.

EMAILS

Steven G. Klump, ME'92, steven.g.klump@monsanto.com

Jerome A. Maurseth, CE'74, MS CE'76, and wife, **Vicky**, CSci'74, MS EMgt'76, maurseth@integrity.com

**SEND US YOUR
EMAIL ADDRESS!**
Just email it to
alumni@umr.edu
and we'll print it.

1960s

1960

B. Douglas Munsell, CE: "I am working on the unmanned combat aircraft at Boeing. We have nine children and 24 grandchildren."

1961

James H. Marble, PetE: "I am enjoying my 12th year of retirement, spending my time between Louisiana, Florida and New York."

1962

Joe G. Fouraker, CE: "Six years into retirement I decided to go back to work. This past year, I have been the general manager of Christian Retreat Conference Center. I am now the president of Uniqueshield Inc., a new company marketing an anti-mold product." • **Russell A. Kamper**, CE: "I was promoted to vice president and chief engineer at Lane Enterprises."

1963

Richard A. Kahl, CE: "I am retired and enjoying hunting and fishing. I do some carpentry work for family and Habitat for Humanity." • **Chang Don Kim**, MetE, retired from U.S. Steel after 37 years. • **Narendra M. Naiknimbalkar**, GGph: "Magdalena, Alexis and I are involved in Habitat for Humanity. I am working on an as-needed basis. Magdalena is getting ready to start Calm & Bright Beginning, a prenatal parenting, hypno-birthing, lactation and infant-massage business." • **Roger J. Ringhausen**, CE: "I retired from Jacobs Engineering on Jan. 2, 2002. Jacobs had purchased Sverdrup a few years earlier. I am taking life easy, playing golf and enjoying my eight grandchildren."

1964

Gary R. Dyhouse, CE: "I recently completed my first book, *Floodplain Modeling with HEC-RAS*, published in October 2003 by Haestad Press, Waterbury, Conn. The book gives detailed guidance on hydraulic design and water surface elevation computations using the Corps of Engineers computer program HEC-RAS. It is intended for both the practicing engineer and for senior-level or graduate students." • **Donald Freese**, MetE: "I retired in August 2003. I am substitute teaching at high schools and

middle schools. Ellen and I have six grandkids. We are loving lake life at Bass Lake, Ind." • **James P. Odendahl**, CE: "I am enjoying my second year of retirement."

1966

Michael J. Brynac, CE: "After many years and an uncountable number of meetings, I can say I have held every office in the St. Louis section of ASCE. Now I am just one of many past presidents, but it was worth the effort. I encourage all professionals to get involved in some professional organization." • **Robert L. Heider**, EE: "I began teaching a digital process control course and lab at Washington University, using new hardware and software donated by Emerson." • **James D. Steele**, CE, was recognized in September 2003 for 30 years of service with Burns & McDonnell Engineering Co., where he is corporate administrator of specifications.

1967

Henry K. Hachmuth, ChE: "My son, Karl, started at UMR this year." • **Warren R. Stanton**, CE: "I am a District Five materials engineer starting my 38th year with the Kansas Department of Transportation. Life is great with my wife of 35 years, two children and four grandchildren." • **Richard Wagner**, EE: "My oldest son, Kurt, graduated from UMR in May with a bachelor's degree in mechanical engineering. My youngest son, Mark, graduates from high school in June and is already planning to attend UMR."

1968

Leroy Halterman, GGph: "Still living in Albuquerque and enjoying it." • **Dennis Hetzel**, CE, joined Heitmann & Associates Inc. as a business development manager. • **A. Richard Lehman Jr.**, EE, MS EMgt'71, and his wife, Marlene, live in Novi, Mich. He is the vice president of marketing and sales for Edward C. Levy Co., handling construction materials and trucking services.

1969

Richard T. Berning, CE: "I was appointed director of the office of public works for the City of Springfield (Ill.) in May 2003, after serving as city engineer for more than 15 years. I was elected president of the Illinois chapter of the American Public Works Association in May 2003." • **Charles W. Foster**, CE: "Being grandparents is great. Empty-nesting is relaxing and yet the void is real. I am still working in the D.C. area for

force protection and emergency operations from an engineering perspective." • **David L. Krausch**, ME: "I am doing well as the global customer satisfaction director for the energy and chassis division of Delphi Corp. I am looking forward to retirement in the foreseeable future, returning to Missouri and getting married." • **Joseph W. Stahl**, Math: "I am writing articles on the Civil War based on individual soldiers. I have had articles published in issues 28 and 29 of *Gettysburg* magazine. Also, on June 21, 2003, and Sept. 13, 2003, my articles were published on the Civil War pages of the *Washington Times*."

1970s

1970

Kent T. Florence, CE: "I retired from the Metropolitan St. Louis Sewer District in July 2001. I volunteer at the St. Louis Zoo and tutor second and third grade students in math. I am also on the citizens advisory committee for Great Rivers Greenway, formerly known as Metropolitan Parks and Recreation District." • **Randy Green**, NDD, is in China teaching English at Zhengzhou University. Zhengzhou is located about 500 miles southwest of Beijing on the Yellow River. • **Robert A. Rinne**, CE, is chief engineer of Black & Veatch's northeast region. • **Daniel J. Spellman**, CE: "I retired from the U.S. Army Corps of Engineers in August 2002. I am living in Cocoa Beach, Fla., and visiting Missouri and Ohio in the summer." • **Raymond J. Staebel**, ChE, is retiring after 33 years with Hyondell-Citgo Refinery in Houston. He and his wife, Diane, plan to devote more time to traveling and to their antique and refinishing business. • **David Villafana**, ChE: "After retirement, I got my license in massage therapy in the state of Florida. I work in sports massage and with people with chronic pain. My wife, Patricia, retired as the chair of the business department at the College of St. Catherine in St. Paul, Minn."

1971

Robert G. Butchko, CE: "Retired early from the Metropolitan St. Louis Sewer District after 21 years as director of engineering. I am continuing my career with Cole & Associates Inc., a civil engineering,

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For UMR trustee, happiness equals success

by Mindy Limback (limbackm@umr.edu)

Photo by Bob Phelan/Photomasters

'You have no promise of tomorrow; you can't change yesterday, so you better focus on making every day a masterpiece.'

***— Recounted by
Keith Bailey as stated
by John Wooden***



Bailey speaks about his secrets of success as part of UMR's Porth Distinguished Lecture Series.

Happiness is success, says **Keith Bailey**, ME'64, a member of the UMR Board of Trustees and retired chair, president and chief executive officer of The Williams Companies Inc. of Tulsa, Okla. Bailey spoke to more than 200 students and faculty about his secrets of success in April as part of UMR's Porth Distinguished Lecture Series.

While planning a career roadmap isn't practical for students, Bailey does believe there is a right way for students to reach their career goals. But it isn't from reading books about climbing to the top of corporations; he calls the authors of such manuals the "modern-day version of snake-oil sellers." Recounting his own experience with Williams — he started with a Williams subsidiary in 1973 as an assistant to the vice president and in 2002 retired after eight years as chair and CEO — Bailey told students they should take a hard look at the company's culture and the people who work there when shopping for a job.

Students should also look for an environment where they can feel comfortable, Bailey says. "Each of us have things that we like better than others. If it's important to you to be able to have an open dialogue or meet on a regular basis with the CEO or president or one of the senior officers, then you're not going to go to General Motors."

Once you've found a job that makes you happy, you should concentrate on what you do best and do it every day. Quoting his friend John Wooden, the legendary former basketball coach at the University of California-Los Angeles, Bailey says: "You have no

promise of tomorrow; you can't change yesterday, so you better focus on making every day a masterpiece."

People do their best work when they bring three types of energy to the project, Bailey adds. "Most of us do pretty well on two of them. Those are intellectual energy — we think hard, we work hard, we get our brain going; and physical — we're willing to put the hours in. But the difference between someone who is a good performer and a champion is the amount of emotional energy you bring to whatever endeavor you have under way. If you can bring that emotional energy to what you're doing — you look forward to every day and are enthusiastic and excited about what you're doing, you look up in the evening and wonder where the day went — you're going to be successful. You're going to have the ability to move along the corporate ladder."

Bailey's talk was one of three Porth lectures he gave while on campus in April. The other presentations focused on the future of engineering education and information economy. The Porth Lecture Series was created by the late **Virginia Lee Porth** in memory of her father, **Harry William Lee Porth**, MinE'11.

A strong supporter of UMR, Bailey's donations to the campus helped establish the Allgood-Bailey Stadium and the Keith and Pat Bailey Missouri Distinguished Professorship in Integrated Product Manufacturing, a position held by Ming Leu of the mechanical and aerospace engineering department.

surveying and planning consulting business, as director of engineering. I have two sons at UMR studying computer engineering." • **Gerald F Maher**, CE, is a project superintendent at Continental Paving Inc.

1972

Scott Camenzind, CE, has joined Morrissey Construction Co. as superintendent for the Renaud Spirit Center in O'Fallon, Mo. • **Dominic J. Grana**, CE, MS CE'75: "Rosemary and I are still in St. Louis. I am vice president of operations at Geotechnology. Our son, Dominic, and his wife, Julie, gave us our first grandchild, Grace Ann. Our son, David, is in the Navy, and our daughter, Emily, is planning a wedding."

1974

Jerome A. Maurseth, CE, MS CE'76: "I served seven weeks in Afghanistan last spring with the Corps of Engineers. I volunteered to serve on a team that assessed critical structures for safety in several locations. It was a great experience! Everyone should go to a Third World country and see how most of the world lives. We encourage any of our 'Rolla days' friends to contact us at aurseth@integrity.com." • **Vicky Maurseth**, CSci, MS EMgt'76: "I am working part time in the office of a local general contractor. The management of construction costs and construction method classes are finally paying off!" • **Michael J. Miller**, AE, a colonel in the U.S. Air Force, is the chief of staff for the Headquarters Air Education and Training Command. He is responsible for the coordination of all training and education in the USAF."

1975

Kenneth R. Jinkerson, ChE: "The last daughter is off to college. Beverly and I have now changed countries, states, homes and employers this past year. Life is full of change to say the least." • **Rodney E. Linker**, CE, was named vice president of Tower Rock Stone Co. in December 2002. • **Tom Mittler**, CE, and his wife, Jan, of Longview, Texas, recently announced the birth of their third grandchild, Madeline Claire Jewesson, born Dec. 3, 2003. She is the daughter of Debby and Mike Jewesson of Dallas.

1976

Milton C. Dickensheet, CE: "We had our first new house built last summer. That was an interesting experience! I am still married and have two sons, ages 23 and 18, and two daughters, ages 4 and 6. Don't get out much anymore." • **Mark S. Dolecki**, CE: "We now have four grandkids to keep us occupied. We visited Rolla and Pi Kappa Alpha in October."

1977

Torie Vandeven, GGph: "Still drilling for gas in Oklahoma via the Rocky Mountains."

1978

Billy F. Little, Chem: "I retired in August 2001 after 41 years with Southern Baptist University. I am currently serving as president of the board of aldermen in Bolivar, Mo., and chairing the building committee for the YMCA." • **Kenneth W. Vaughan**, EMgt: "I visited an old friend, **Frank Rehfeld**, MetE'43, in St. Louis last May."

1979

Michael W. Noble, ChE, was appointed chair of the division of oral and maxillofacial surgery and facial trauma services at St. John's Mercy Medical Center in St. Louis.

1980s

1980

Donald E. Guenther, ChE: "Just purchased a St. Louis distributorship for car wash equipment, called Car Wash Products and Service. Special discount for UMR grads, give me a call." • **David W. Schmitt**, CE: "Kathy and I continue to keep busy here in south Florida. I got involved with the Optimist Club while living in Rolla after graduation. I had a lot of good mentors like **Chuck Remington**, ME'49, MS ME'50; **Jerry Bayless**, CE'59, MS CE'62; and **Ken Oster**, MS EMch'72, PhD CE'76; as well as others in the community. I was recently elected to serve as the 2004-2005 governor of the south Florida Optimist district."

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Magnus speaks during National Engineers Week



NASA astronaut **Sandra Magnus**, Phys'86, MS EE'90, was one of two astronauts to speak at the University of North Dakota's School of Engineering and Mines

during National Engineers Week in February. She spoke about the International Space Station. Magnus also visited two high schools in the Grand Forks, N.D., area.

MSPE names alumnus 'Outstanding Engineer in Construction'

Gregg Ernst, CE'81, senior project manager at Clayco Construction Co., was named Outstanding Engineer in Construction by the St. Louis chapter of the Missouri Society of Professional Engineers in February.

At Clayco, Ernst is managing the construction of three new American retail stores in the St. Louis area. Past projects have included the construction of Busch Student Center at Saint Louis University, approximately 1.3 million square feet of space for Sweetheart Cup Co. and 385,000 square feet for Boise Cascade Office Products.

If only Lewis and Clark had used solar power

Outfitted in his best Lewis and Clark regalia, **Bill Stine**, ME'44, a member of the Lewis and Clark Task Force of Jefferson City, Mo., poses with UMR's *Solar Miner IV* and UMR student **Daniel Riley**, an electrical engineering major.

Riley and the solar car were in Jefferson City in February as part of a display for Engineering Week.



1981

Barbara A. (Stoecklein) McPherson, CE: "Last year we wrote to say we were moving from Indiana back to Missouri. Now we are moving back to Indiana. Phil will be moving to an office next to his old one and the family will move into a house in the subdivision we lived in prior to the move to St. Louis. Everything comes full circle, this time in less than a year."

1982

David Brewer, ME, joined Paric Corp. as a health care project manager. • **Maureen Midgley, ChE,** a plant manager at General Motors, was the commencement speaker at the Youngstown State University spring 2003 graduation, where she received an honorary doctorate. She was also the keynote speaker at the 2003 Mahoning Valley Athena Awards Dinner.

1983

Mark Cook, CE: "I visited campus on a recent trip home and was impressed with the new Butler-Carlton Civil Engineering Building. The growth is looking good. I was promoted to area manager of Jacobs Engineering, overseeing senior project engineers in our north Florida transportation sector." • **Philip D. McPherson, CerE:** "Last year Barb and I wrote to say we were moving from Indiana back to Missouri. Now we are moving back to Indiana. I am moving to an office next to my old one and the family is moving into a house in the subdivision we lived in prior to the move to St. Louis. Everything comes full circle, this time in less than a year." • **William D. Richard, EE:** "I

am now with the new department of computer science and engineering at Washington University, after a schoolwide reorganization of computer engineering activities." • **Randall G. Schuetz, ChE:** "I have recently joined Motoman Inc. in Dayton, Ohio, as a coating technology leader for paint robotic applications. Our family will be relocating to Dayton from Wichita, Kan., in the near future."

1985

Paul M. Matthews, ChE: "I am married with two young sons and living in Peoria, Ill."

1986

David Barrett, ChE: "I am still working for Ethyl Corp. and was promoted to operations manager about a year ago. Pippa and both girls are doing well. We still live in Ladue, Mo."

1988

Jonathan R. Lamprecht, AE & EMch: "Greetings to all of my friends from the class of 1988. If you are ever in San Diego, look me up. My phone number is (619) 656-6280."

1989

Bernard J. Frank, AE: "I retired from the Air Force in November 2003 after 22 years of service. I am now a program manager for Raytheon Intelligence and Information Systems." • **John Meyers, EMgt,** received a master's degree in engineering management from the University of Kansas.

1990s

1990

Christopher A. Layton, CE: "Upon completion of the cable-stayed bridge in Cape Girardeau, Mo., I left heavy civil contractor Traylor Brothers to join Smith and Co. Engineers and manage an office in Jackson, Mo. My wife, Kristy, and children Jordan, 4, and David, 2, are excited about being able to stay put in southeast Missouri." • **Cindy (Black) Moses, CE:** "Joseph, CE'91, and I have a 7-year-old girl and we adopted a 16-month-old girl from Guatemala in March 2003."

1991

Melissa Corkill, CE: "I am back to work at CDM in Kansas City." • **Joseph Moses, CE:** "Cindy (Black), CE'90, and I have a 7-year-old girl and we adopted a 16-month old girl from Guatemala in March 2003." • **Christopher Newcombe, CSci:** "Recently passed the seven-year mark working as a computer consultant. I'm living in Portland these days and really like Oregon." • **Kevin Riggs, ME,** joined Cole & Associates as executive vice president and principal engineer in charge.

1992

Steven G. Klump, ME, works as a project estimator at Monsanto Envirochem in Chesterfield, Mo.

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What's new
with you?

Send us your alumni notes via:

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MSM-UMR Alumni Association
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Karl E. Burgher named to national post



Photo by Bob Phelan/Photomasters

Karl E. Burgher, Econ'84, PhD MinE'85, who served as interim chair of economics and finance at UMR from August 2003 through June 2004, was named associate director for outreach and technology transfer for the Rocky Mountain Regional Hazardous Substance Research Center. The Colorado State University center was formed in November 2001 to research new and cost-effective methods for cleaning up mine waste sites. In July, Burgher took over the post of vice president of research and contracts at Fairmont State University in West Virginia.

Motorist lay paralyzed for 36 hours on Gulf Freeway

Passerby on freeway spots him as traffic keeps whizzing past

By Roma Khanna and Mike Glenn,
published March 30, 2004

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FRIENDSWOOD, TEXAS — Paralyzed when he collapsed after a car crash, **Ed Theisen** (ChE'80) lay alongside the Gulf Freeway with a broken neck, hidden among traffic barricades, for 36 hours before his rescue.

Night, and its sharp chill, came and went. So did the whizzing traffic of four Houston rush hours.

Theisen's wife, worried he had been carjacked, drove past twice as her husband prayed for small things such as the ability to grab a plastic bag fluttering nearby to warm his arm.

As the sun went down on day two, Theisen, 46, had begun to brace for another night when he was rescued March 23.

"Someone riding in the back of a pickup truck spotted him and called police," Debora Rodeffer-Theisen said Monday after her husband emerged from surgery. "The officer poked him with a nightstick thinking he was a dead body, but he was there and he was very much alive. It was a miracle."

Theisen, a chemical engineer from Friendswood, began March 22 like most other days. He said goodbye to his 16-year-old stepson at about 6 a.m. before he set out for work in the Galleria area.

He was driving up the Gulf Freeway just outside of downtown when traffic slowed and he was rear-ended. Theisen pulled his white Ford Taurus to the shoulder, as did the other driver, and got out to exchange insurance information.

Rather than walk into the heavy oncoming traffic, Theisen stepped between the concrete barriers near the HOV lane. Suddenly, he felt weak.

"He thought he was having a heart attack or a stroke," Rodeffer-Theisen said. "He grabbed the concrete barrier and just went down."

Theisen was instantly paralyzed, unable to move anything except his right hand four or five inches.

The other driver did not see where Theisen went and told police, who made an accident report, that he had just

(continued on page 52)

Two alumni receive Black Engineer of the Year Awards

Two UMR alumni were honored at the 18th annual Black Engineer of the Year Awards Conference in February at the Baltimore Convention Center in Baltimore, Md.



Mike Emanuel

Mike Emanuel, EE'87, an embedded software engineer at The Boeing Co., received the Modern Technology Leader Award from *U.S. Black and Information Technology* magazine at the conference. The award recognizes Emanuel's achievement and success as a leader of engineering, science and technology in the aerospace industry. Only 10 other people in the nation have received this honor. At Boeing, Emanuel — a self-described "sci-fi kid" and St. Louis native — develops flight simulation tests for equipment and systems for the U.S. Navy's F/A-18 E/F Super Hornet. He is one of only 16 Boeing employees to ever win a Black Engineer of the Year Award.



Gary D. Harris Jr.

Gary D. Harris Jr., EE'04, was one of eight GM engineers who received the Special Recognition Award for Student Leadership for helping "to shape the future of engineering, science and technology." Having served in three cooperative education work assignments at GM since 2000, Harris' most recent co-op assignment was at the Mishawaka (Ind.) Assembly Plant — also known as the Hummer H2 plant. Past assignments include designing, developing and evaluating prototypes, testing models and databases in telematics, HVAC, and radio and human factors groups.

Tennessee featured in Workforce Diversity magazine

Denise Tennessee, GeoE'81, was featured in the winter 2003/2004 10th anniversary issue of *Workforce Diversity for Engineering and IT Professionals* magazine. She was one of five government workers who specialize in engineering and information technology to be featured for their professional accomplishments.

Since 1988, Tennessee has worked with the Natural Resources Conservation Services (NRCS), a U.S. Department of Agriculture agency. She is currently a conservation engineer assigned to the NRCS Atlanta office, where she evaluates the effectiveness of conservation program implementation and agency operations. Tennessee is also a registered professional engineer and the author of an article published in *Water Science and Technology*. She is a registered mediator for the State of Georgia and serves as a mentor to less-experienced engineers.

Photo courtesy of Anheuser-Busch



Making bottles for beer

St. Louis' largest brewery and Saint-Gobain Containers Inc. go hand in hand — or beer in bottle in this case. **Kari Troyer**, CerE'01, is the batch and furnace manager for Saint-Gobain Containers Inc.'s Pevely, Mo., plant, which makes more than 3 million beer bottles each day. Most of these bottles end up at the largest

beer brewery in St. Louis. Troyer works beside a molten glass river, monitoring the measurement of ingredients in the batch house and the maintenance of temperatures, pressures and levels of glass inside the plant's two furnaces. Troyer has been with Saint Gobain since graduation — almost three years.

Good chemistry improves 'unit ops' lab

When **Dennis Clodfelter's** son, Scott, phoned home from campus one evening a year ago, Clodfelter assumed it would be the typical father-son college talk. "Like most college students, he wanted money," says Clodfelter, EE'80, whose son is studying chemical and biological engineering at UMR. But something else was on the younger Clodfelter's mind: the state of his department's Unit Operations Laboratory.

The "unit ops" lab, where ChemE's learn how to control all manner of processes, was outfitted with antiquated equipment. It was far from anything students would encounter in the world of chemical processing. "I recognized some of the equipment from when I was here," says **Aaron Epperly**, ChE'87, who worked with Clodfelter at a former St. Louis-based aspirin manufacturer, Rhodia.

Today, the lab is outfitted with newer equipment and instrumentation, thanks to the efforts of Clodfelter and Epperly. When they learned in early 2003 that Rhodia was closing the St. Louis plant, they approached management about donating some of the plant's equipment to UMR for the lab. Management agreed, and Rhodia gave UMR \$550,000 worth of computers, software and field instrumentation.

UMR still needed someone to install the equipment. No one was more qualified for that job than Clodfelter. "I installed it the first time, between 1996 and 1999," when Rhodia automated the St. Louis plant. So Clodfelter went to work in the basement of Schrenk Hall, which houses the lab's control center. The drive from St. Louis to Rolla and back became a familiar commute week in and week out. Nine months, thousands of miles and 10,000 feet of cable and wiring later, the UMR lab is thoroughly modern.



Photos by Bob Phelan/Photomasters



Above: Chemical and biological engineering student Elisabeth Dowil, a junior, tests new equipment in their department's newly renovated Unit Operations Laboratory. Looking on is Chris Reeves, center, a May 2004 graduate, and Brian Schwegal, a junior.

Top: UMR graduates Aaron Epperly, ChE'87 (center left, with certificate) and Dennis Clodfelter, EE'80 (center right, with certificate), were honored recently for their efforts to secure new equipment for the chemical and biological engineering department's Unit Operations Laboratory. Pictured with Epperly and Clodfelter in the newly renovated lab are, from left, Robert Mitchell, dean of the UMR School of Engineering; Judy Raper, chair of the chemical and biological engineering department; and Kelvin Erickson, EE'78, MS EE'79, chair of the electrical and computer engineering department.

Tebo named Boulder's Man of the Year

Stephen Tebo, MS CSci'68, a real-estate developer in Boulder, Colo., received the Man of the Year Award from the Young Women's Christian Association (YWCA) of Boulder County during the YWCA's 12th annual Hall of Fame fund-raising event March 6 in Boulder.



Stephen Tebo

"It was very nice to be recognized," Tebo says. "There were a lot of extremely worthy people, and I feel honored that they picked me."

A Boulder resident since 1968, Tebo has become a prominent business owner and developer in Boulder County, where he currently owns and manages more than 100 buildings. With his son, Brad,

Tebo is marketing a new retail development for restaurants, freestanding businesses and retailers.

Tebo and his wife, Shari, are personally and professionally involved in many community, charity and business organizations and sponsor a scholarship for University of Colorado-Boulder basketball player Blair Wilson. Tebo has also been a member of the boards of Downtown Boulder Inc., Commercial Brokers of Boulder and Imagine, as well as a sponsor of the annual Boulder Lights of December Parade. He has served as a finance chairman for the Boulder County Republican Party, is on the board of management for the First Congregational Church, and is a chair for the Boy Scouts Distinguished Citizens Dinner.

Fifty years later, the Starlighters on CD

Alumni who remember the music of the Starlighters, a group of four alumni who started performing together while on campus in the '50s, can now relive those moments by listening to the Starlighters' CD, *Jazz Expressions*.

The Starlighters formed on campus in 1952, and from 1952-54 the band played regularly at local clubs and university functions. Original band members **Al Bogush**, EE'55, **Dick Cruse**, ME'55, **Jim Toutz**, ME'54, and **Bob Walsh**, CE'55, reunited in 2000 after a 46-year hiatus. Recently, the original four recorded *Jazz Expressions* along with Ray Ham, long-time friend of Toutz, and Bogush's grand daughter, Jennifer Faulkner.

The group plays a mix of Dixieland and classic jazz pieces. "They call them jazz standards now, but back then it was pop," says Toutz.

Copies of the CD are available from Bogush. Contact him at al701@earthlink.net for more information.

Motorist lay paralyzed for 36 hours on Gulf Freeway (continued...)

walked off, his wife said. The tow truck driver who hauled off Theisen's car about 7 a.m., and who likely was his last hope, did not see him, Rodeffer-Theisen said.

As Theisen lay on his side, staring at a concrete wall, his shouts inaudible to passing traffic, his family began to think the worst.

"I came home that night at 6 and he was not there. He is always home or has left a message, so I checked the machine," Rodeffer-Theisen said. "There was a message from his office saying, 'Ed where are you?' And then I began to worry."

She filed a missing person report with the Harris County Sheriff's Department and, in the process, learned that Theisen's car had been in a crash and was at an impound lot.

"But that just fit the carjacking theory," she said, "that someone had stolen the car, crashed it and ran off."

As the hours wore on with no explanation, friends began to call area morgues.

Rodeffer-Theisen, friends and family were plastering their Friendswood neighborhood with missing person fliers with Theisen's photograph, when the Houston Fire Department called to say that he was alive. Rodeffer-Theisen immediately called Memorial Hermann Hospital. "They said, 'We have him here and he is alive and he is saying he loves you,'" Rodeffer-Theisen said. "He was covered in Houston pollution — it was coming out of every pore — but he was alive."

Doctors determined that Theisen had broken his neck and suffered a spinal cord injury. He underwent surgery on his neck Monday. At this time, his prognosis is unclear, Rodeffer-Theisen said. He will remain in traction for some time and will have to undergo physical therapy to regain movement.

"He told me he thought he had a new vocation — to be in a wheelchair," she said through tears.

His family is eager to watch him recover, but they also are searching for the person who spotted him and called police.

"That person, whoever it was, saved his life," Rodeffer-Theisen said. "And I just want to find them and say, 'Thank you. Thank you for giving me my husband back.'"

Policy for publishing Alumni Notes

- We are happy to announce weddings, births and promotions, after they have occurred.
- We will mention a spouse's name if it is specifically mentioned in the information provided by the alumnus/alumna.
- The *MSM-UMR Alumnus* will announce deaths, if information is submitted by an immediate family member, or from a newspaper obituary. Notification of deaths that have occurred more than two years before the date of publication will not be published unless a special request is made by a family member.
- Obituary information on alumni spouses will be printed only if the alumnus/alumna specifically requests that we print it.
- We will print addresses if specifically requested to do so by the alumnus/alumna submitting the note.
- We reserve the right to edit alumni notes to meet space requirements.
- We will use submitted photos as space permits.

1993

Amy Whorton, ChE: "I am staying at home full time while Jim continues to work at Virocon Inc."

1994

Chad Joseph Means, MSys: "My wife, Cynthia, and I have two children: Evan, 4, and Kate, 4 months. I received project management professional certification from the Project Management Institute in December 2002." • **Michael Rakonick**, CE, started a new position as project manager with Volk Construction.

1995

Charles (Christian) Cook, CE: "I am relocating to Fort Riley, Kan., where I will fly with a medical evacuation unit. My wife, **Christina (Duker)**, CE'95, will be working with Raw Valley Engineering." • **David Perkins**, MetE: "I was recently promoted from senior metallurgist at Alcoa-Texarkana to customer technical support engineer at Alcoa-Danville, transferring to Nashville, Tenn." • **Christopher Scheibhofer**, MetE: "I am the chief metallurgist for Scot Forge in Spring Grove, Ill. **TJ (Davenport)**, EMgt'95, is in the Missouri Air National Guard and has been activated since March 2003. She has spent 4 months in the Middle East so far this year. Our son, Nate, is 2 years old."

1996

Deborah Dicus, Hist: "I received my master's degree in history from the University of Missouri-St. Louis on Jan. 12, 2003, with intense study of the history of the 20th century." • **Melissa Herberger**, CE: "I am now an engineering manager at Boeing in Wichita, Kan., working as a structures manager on KC-135, E-6 and E-8 programs." • **Leah Ruder**, ChE: "I passed the professional engineer exam for controls systems. I'm married with no kids, but we have a really cute dog. We live near St. Louis."

1997

Joel Mikelionis, ChE: "Still traveling with Universal Oil Products of Des Plaines, Ill. I have been near Barcelona, Spain, since December 2002. Following the Chicago Cubs makes life more interesting."

1998

David Alford, NucE: "I was promoted to nuclear engineer III at Wold Creek Nuclear. I've been married for almost nine years, with two boys, ages 2 and 4." • **Darren Brown**, CE: "My wife, Faith, and I are still happily married and living the good farm life. Our son, Noah, is now 4 years old." • **Bike Iskit Howard**, Econ, was named of director of e-business at Husqvarna. • **John Howard**, ChE: "Still working for Elementis Specialties in St. Louis. I was named production manager in June 2003." • **Gaurav Pant**, ChE: "I completed a master's in business administration with Beta Gamma Sigma honors from the University of North Carolina-Chapel Hill in December 2002."

1999

Molly A. (White) Kerr, AE, received a master's degree in aeronautics and astronautics at Stanford University in January 2002, and is now a systems engineer at Northrop Grumman Missile Systems. • **Andrew Rich**, GGph: "Everything's great here in Houston with Kerr-McGee. I am working with the Gulf of Mexico deepwater exploration group on a series of regional projects. If anyone is ever in the Houston area, look me up."

2000s

2000

Chris Day, ChE: "I am working for ChevronTexaco as a reliability engineer. Keep in touch with me at (504) 734-8619." • **Tommy L. McCoy II**, ChE: "My wife, Katie, and I just celebrated our daughter's first birthday."

2001

Kristi Kuhlmann, CE: "I recently transferred from the Black & Veatch St. Louis office to its Orange County office in Southern California."

2002

Evelyn (Barnes) Chamberlain, ChE: "Adam, CerE'02, is pursuing his Ph.D. in ceramic engineering and I am pursuing a Ph.D. in environmental engineering, both from UMR."

On the search for Osama bin Laden

When U.S. forces in Afghanistan launched a new plan to find Osama bin Laden last winter, UMR graduate and Army Capt. **Anthony Gibbs**, ME'97, played a prominent role in the effort. Gibbs headed a three-day mission to attempt to capture Jalaluddin Haqqani, a former senior Taliban military commander and ally of bin Laden. The company visited Haqqani's stronghold of Khost, Afghanistan, and aimed to connect with local residents. "I feel more like a detective around here than anything else," Gibbs was quoted as saying in the March 14 issue of *The Wall Street Journal*. "Before, they could count on us only coming up here every few months, and it would be different people every time. I'm hoping, if we come here a couple more times, they will get to know our faces and become more cooperative."

Memorials correction

In the spring issue of the Alumnus, Robert Davis' obituary had an incorrect photo. The following is the corrected version. The editors regret this error.



Robert E. Davis, CerE'50, was a member of the American Ceramic Society, Keramos, Sigma Pi and M Club while attending MSM-UMR.

He served in the Coast Guard from 1945-46, and the Army from 1954-56, where he was a Counter Intelligence Corps special agent in Kaiserslautern, Germany. His industrial experience began in Chicago, as a ceramic engineer with Plibrico Co. He retired from AFG Industries, where he worked as a furnace engineer in Kingsport, Tenn. Davis was a past president of the Kingsport Lions Club and was a lifelong avid gardener. †Oct. 13, 2003

1937

Grant W. Schaumburg, ChE, was a member of Kappa Sigma, St. Pat's Board and Epsilon Pi Omicron and worked as a student assistant in the chemistry department while attending MSM-UMR. †Oct. 28, 2003

1938

George W. Haacke, ME, was a member of ASME and worked as a student assistant in the mechanical engineering department while attending MSM-UMR. †March 11, 2003



Raymond R. Medley, MinE, retired in 1971 from American Smelting and Refining Co. (ASARCO) as general superintendent of underground mining operations. †Nov. 17, 2003

1940

Kenneth Wilhite, NDD, retired from the Air Force with honors in 1974. He received the Distinguished Flying Cross with oak leaf clusters, the Air Medal and the Croix de Guerre with palm cluster. In 1977 he retired from General Motors after 21 years of service. †Dec. 12, 2003

1941

Washington (Wash) Adams, ME, spent his early career with RCA, then worked for Collins Radio for 31 years — 10 years in Cedar Rapids, Iowa, and 21 years in Texas. †Jan. 31, 2004

Nelson A. Koerner, ME, was a member of the football team, M Club and Engineers Club while attending MSM-UMR. †Oct. 27, 2003



William I. Morris, MinE, worked in the Illinois coal mining industry for 15 years and became the chief permit engineer for the State of Illinois. He was a Shriner and a 26-year member of Central Lodge 71 of Springfield, Ill., and was a 32nd Degree Mason. †Oct. 21, 2003



Rolf W. Roley, MinE, †Nov. 17, 2003

1942



Jacques W. Zoller, MinE, was a member of Kappa Sigma, the football team, the intramural sports program and the St. Pat's Board while attending MSM-UMR. †Nov. 19, 2003

1943



Oscar L. Davis Jr., MetE, †Jan. 10, 2004



Ned Swallow, MinE, enlisted in the Navy after graduating from MSM-UMR and was sent to Officer Candidate School at Cornell University in New York. He served as the engineering officer on a destroyer escort in both the Atlantic and the Pacific theaters for the remainder of World War II. He then served as part of the naval occupation force in Japan and was honorably discharged in 1946. Swallow then began a 41-year professional career as a geophysicist with Shell Oil Co. After retiring in 1983, he returned to Midland, Texas, as a consulting geophysicist. †Nov. 26, 2003

Edward Vollherbst, MetE, was a member of Kappa Sigma and ASME while attending MSM-UMR. He worked in the X-ray and licensing departments of Westinghouse International in New York City and Pittsburgh for 40 years, retiring in 1983. A World War II Army veteran, Vollherbst was a member of the Veterans of Foreign Wars. †Nov. 21, 2002

1944

Richard E. Wampler, MinE, was a member of the Engineers Club, AIME and Independents, worked as a student assistant in the mining engineering department and served on the Miner board while attending MSM-UMR. †March 18, 2001

1948



Robert F. Doelling, MetE, MS MetE'50, was a member of ASM, Tau Beta Pi, Phi Kappa Phi and Sigma Nu and was on the Honor List while attending MSM-UMR. He was a member of the Navy Seabees Construction Battalion stationed in the Philippines during the Korean War. In 1993, Doelling retired as

president of the Witt Co. after 33 years of service. He also worked with the International Waldenstrom's Macroglobulinemia Foundation, an organization that raises awareness of macroglobulinemia and raises funds for research to find its cure. †Oct. 29, 2003

Fred Todd, MetE, †Jan. 28, 2004

1949

John H. Fuqua, MetE, was a member of Kappa Alpha, AIME and ASM while attending MSM-UMR. †Jan. 1, 2004

Matthew Nackowski, MS GGph, PhD GGph'52, was a member of AIME and Theta Tau while attending MSM-UMR. After teaching at MSM, he joined the mining and geological engineering department at the University of Utah in Salt Lake City in 1955. He retired as professor emeritus in 1980, then served as vice president and consultant to Terra Diamond Industrial in Salt Lake City. †Oct. 23, 2003

1950



George Crabtree, ME, was a member of the MSM Rifle Club, ASME and Silver Key and was on the Honor List while attending MSM-UMR. A member of the 112th Seabees Construction Battalion, Crabtree served 21 months in the South Pacific Theater during World War II. As a mechanical engineer for Frisco Railroad, he was noted as a design engineer for the tri-level automobile carriers Frisco developed in the 1960s. †Nov. 5, 2003

William H. Cox, CE, was a member of ASCE, SAME, ROTC, the *Rollamo* Board, Pershing Rifles and the Detonators while attending MSM-UMR. †Aug. 30, 2003

Albert G. Danz, ME, was a member of the Radio Club, MSM Players, Alpha Psi Omega, Inner Guard, Photo Club, Sigma Phi Epsilon and ASME and was on the Honor List while attending MSM-UMR. †June 1, 2003

Paul A. Matthews, MinE, started his career at Braden Copper's El Teniente mine in Chile, then held positions at numerous other mines worldwide. Before retiring in 1995, he served as senior vice president of operations for Ranchers Exploration and Development Corp. and then as vice president of Olympic Mining Corp. †July 9, 2003



Harvey W. Meier, ME, was a member of Gamma Delta and ASME while attending MSM-UMR, then served in the Navy during World War II. Meier worked as an engineer-designer for A.O. Smith until 1968, then founded Meier Technical Associates, a manufacturer's representative and engineering consulting company based in Florissant, Mo. He was a trustee of Atonement Lutheran Church of Florissant. †Dec. 30, 2003



David E. Tate, CE, †Sept. 8, 2003

1951



Thomas L. Hanson, ME, †June 12, 2003



Jean L. Meyer, ME, was a member of ASME and the Engineers Club while attending MSM-UMR. †Aug. 10, 2002

1953



Connelly Sanders Jr., MetE, was a member of Detonators and Sigma Nu and was on the Honor List while attending MSM-UMR. †Sept. 30, 2003



Jack M. Wheeler, MetE, was a member of Phi Kappa Phi, Tau Beta Pi and Pi Kappa Alpha and was on the Honor List while attending MSM-UMR. †Nov. 20, 2003

1954



Fredrick Burns, EE, was a member of Theta Kappa Phi and AIEE and was on the Honor List while attending MSM-UMR. As vice president of research and development at E-Z Paint, Burns held 25 U.S. patents and received the Chief Executive Award for Outstanding Contribution from Newell Corp. in 1992. †Nov. 5, 2003

1955



Wayne R. (Pat) Broaddus Jr., CE, was a member of Sigma Nu, M Club, the football team, Theta Tau and Blue Key while attending MSM-UMR. He was founder and president of Associated Aggregates International Inc., an engineering consulting firm. He was a member of the Academy of Civil Engineers, the Georgia Crushed Stone Association and the National Stone, Sand and Gravel Association, serving on the NSSGA board of directors for more than 20 years. He was on the UMR alumni board of directors for more than 25 years, serving as its vice president for 12 years. †Dec. 18, 2003

1956



John R. (Bob) Hammond, CE, was a member of ASCE, Engineers Club, M Club, Student Council, the football team and Independents while attending MSM-UMR. He worked at both U.S. Steel Co. and Inland Steel Co., where he worked as a supervisor. Hammond was a member of the First United Methodist Church in Chesterton, Ind., and served on the church's administrative board. He served on the Chesterton Park Board for 25 years. †Dec. 24, 2003

1957

Robert A. Nichols, ME, was a member of Sigma Nu, M Club, ASME, Independents and the basketball team and was on the Honor List while attending MSM-UMR. He served in the Army Air Corps from 1946 to 49 and was a member of St. Agnes Catholic Church, the Exchange Club and the Knights of Columbus, and was an honorary member of Ohio Municipal Electric Association. †Feb. 13, 2003

1958

Jack L. Loper, ME, was a Marine pilot during World War II and a member of the U.S. Naval Reserve. He later worked on the Gemini project at NASA's George C. Marshall Space Flight Center in Huntsville, Ala. Loper also worked for the Army Corps of Engineers in Saudi Arabia and in Germany for several years. He was a registered professional engineer whose career included teaching posts at Southwest Virginia Community College, North Carolina A&T State University, the U.S. Naval Academy and the University of Petroleum & Minerals in Saudi Arabia. †Dec. 18, 2002

Donald Rinker, Phys, was a member of Sigma Pi Sigma and was a graduate assistant in the physics department while attending MSM-UMR. †July 9, 2003

1959

Kenneth A. Swanson, GGph, CerE'62, was a member of Spelunkers, Independents and the Shamrock Club while attending MSM-UMR. He was a plant engineer with Consolidated Ceramic Products Inc. and was a veteran of the Army Corps of Engineers. †Jan. 23, 2004

1960



Frederick Anderson, MetE, was a member of the basketball team, Prospectors Club, Independents, AIMME and AFS and was on the Honor List while attending MSM-UMR. †April 24, 2001



Ronald P. Carver, CE, was a member of Chi Epsilon, Tau Beta Pi and Phi Kappa Phi, was on the Honor List, received the Curators' Award and the Gold Key Award, and was a Lura and George Easley Scholarship recipient while attending MSM-UMR. He received master's and Ph.D. degrees in experimental and educational psychology from Washington University in St. Louis, then served as a captain in the U.S. Army from 1965 to 1967. He joined the University of Missouri-Kansas City faculty in 1974 and served as chair of the division of educational research and psychology from 1988-1996. A pioneer in scientific reading research, he authored three books and more than 100 journal articles, book chapters and reviews. Carver founded the Society for the Scientific Study of Reading in 1994. He also served on the editorial boards and boards of directors for numerous professional organizations. †Jan. 19, 2004

1961



Lester G. Abernathy, ME, was a member of Pi Tau Sigma, SAE, Shamrock Club and AFS while attending MSM-UMR. He served in the Air Force Reserves and as company commander of the Corps of Engineers at Fort Leonard Wood, Mo. Respected as a visionary in the transportation industry, Abernathy built a variety of national transportation companies including ABCO Transportation, a Florida-based nationwide refrigerated-trucking company he recently founded with his wife, Norma. †Nov. 13, 2003

1963

James R. Carstens, ME, was a member of Independents, Engineers Club and the Radio Club while attending MSM-UMR. He was a professor of mechanical design engineering technology at Michigan Technological University until his retirement in 2001. †Oct. 27, 2003

1965



Richard C. Beckmann, EE, was a member of Theta Chi and was on the Honor List while attending MSM-UMR, graduating with Second Honors. He retired from Sandia National Laboratories in 2001, then worked for Learning Tree International. †Feb. 28, 2003



Robert C. Fear, ChE, was a member of AIChE, Prospectors and Independents and was on the Honor List while attending MSM-UMR. †Sept. 20, 2003

1966



Lawrence H. Ellett, MetE, was a member of AIME, Theta Xi, Student Council and Spelunkers and was on the Honor List while attending MSM-UMR. He graduated from the Pacific Grove School of Optometry in McMinnville, Ore., in 1972, then worked as an optometrist for 30 years. †Jan. 19, 2003

1967



Ralph A. Myers, CE, was a member of Phi Kappa Phi, Chi Epsilon and Tau Beta Pi while attending MSM-UMR, graduating with First Honors. †Dec. 2, 2003

1968

Robert L. Bond, Math, †Feb. 24, 2003

1970

Thomas J. Mudd, MS CE, began his professional career with the Army Corps of Engineers' St. Louis District, working on the St. Louis Flood Protection Project, the Clarence Cannon and Shelbyville dams, and the Kaskaskia Lock and Dam. He led a 50-person structural design team for Mel Price Locks and Dam in Alton, Ill., then served with the corps' Ohio River division and the Waterways Experiment Station. A former member of the 82nd Airborne Division, he received a meritorious civil service award. †Dec. 27, 2003

1971

Daniel D. Fischer, EE, MS CSci'82, worked for the Corps of Engineers in Atlanta for 10 years, then moved to Sedalia, Mo., as a computer programmer for Sprint in Kansas City. An avid outdoorsman, he enjoyed hunting and fishing in the Rocky Mountain states. †Nov. 20, 2003



Michael D. Norton, EE, †Sept. 11, 2003

1972

Gian S. Aneja, MS ME, †Aug. 2, 2003

Raymond L. Landreth, Math, †Sept. 18, 2003

1973

David P. Mohr, EE, †Oct. 6, 2003

1978

Christopher S. Wood, MS GeoE, worked as a production and design engineer for Northern Illinois Gas, Amoco and West Bay Exploration in Traverse City, Mich. He took professional pride in his safety record for the facilities he designed and the benefit they brought to their communities. †Nov. 1, 2003

1982

Raymond E. Kern Jr., ME, †March 3, 2002

1985

A. Duane Talbott, EE, worked in the Kansas City, Mo., area for AlliedSignal, J.C. Air and Hallmark Cards. †Dec. 23, 2003

1986

Robert Kent Gorham, Hist, was a pressman for the *Kansas City Star*. Involved with the Boy Scouts of America all of his life, Gorham was an Eagle Scout, a member of Boy Scout Troop 266 and a life member of Tribe Mic-O-Say. He was also a member of the Oak Grove Methodist Church. †Dec. 16, 2003

1987

Virgil L. Moore III, MS AE, †Nov. 3, 2003

2002

Andrew Vidal, CerE, was a member of Sigma Pi while attending MSM-UMR. †Nov. 9, 2003

Friends

Ardella Browning, wife of Phil A. Browning, EE'48, †Jan. 1, 2004

Sharon Cain, wife of Bruce Cain, CE'87, †Oct. 25, 2003

Ralph S. Carson, former professor of electrical engineering at UMR who retired in 1993. Carson was also a former chair of electrical engineering at Indiana Technical College in Fort Wayne, Ind. He wrote three textbooks: *Principles of Applied Electronics*, *High Frequency Amplifiers* and *Radio Concepts: Analog*. Carson was an active member of the First Presbyterian Church in Rolla and a tutor in local schools and church programs. †Nov. 1, 2003

Phoebe Elsea, wife of Carl A. Elsea, EE'32, †June 21, 2002

Jean Erskine, wife of Robert H. Erskine, MetE'50, †Oct. 3, 2003

Virginia Gratz, wife of George Gratz, GGph'57, †Nov. 4, 2003

Jerry Hawks, husband of Molly Malone, †Jan. 22, 2004

William R. Heller, †Dec. 22, 2003

Selma Mansfield, wife of Herman Mansfield, MetE'47, †Jan. 21, 2003

Cynthia Mueller, wife of Kent W. Mueller, ME'72, †Nov. 29, 2002

Joan Nickless, wife of Arthur Nickless, Phys'65, †Sept. 27, 2003

Evelyn H. Pender, wife of Paul S. Pender, ME'51, †April 13, 2001

George Planje, a member of Craftsman Lodge #717 of St. Louis, the Alhambra Grotto of St. Louis, the Scottish Rite Valley of Joplin, the Moolah Shrine of St. Louis and the South Central Missouri Clowns of Rolla, Mo. †Nov. 25, 2003

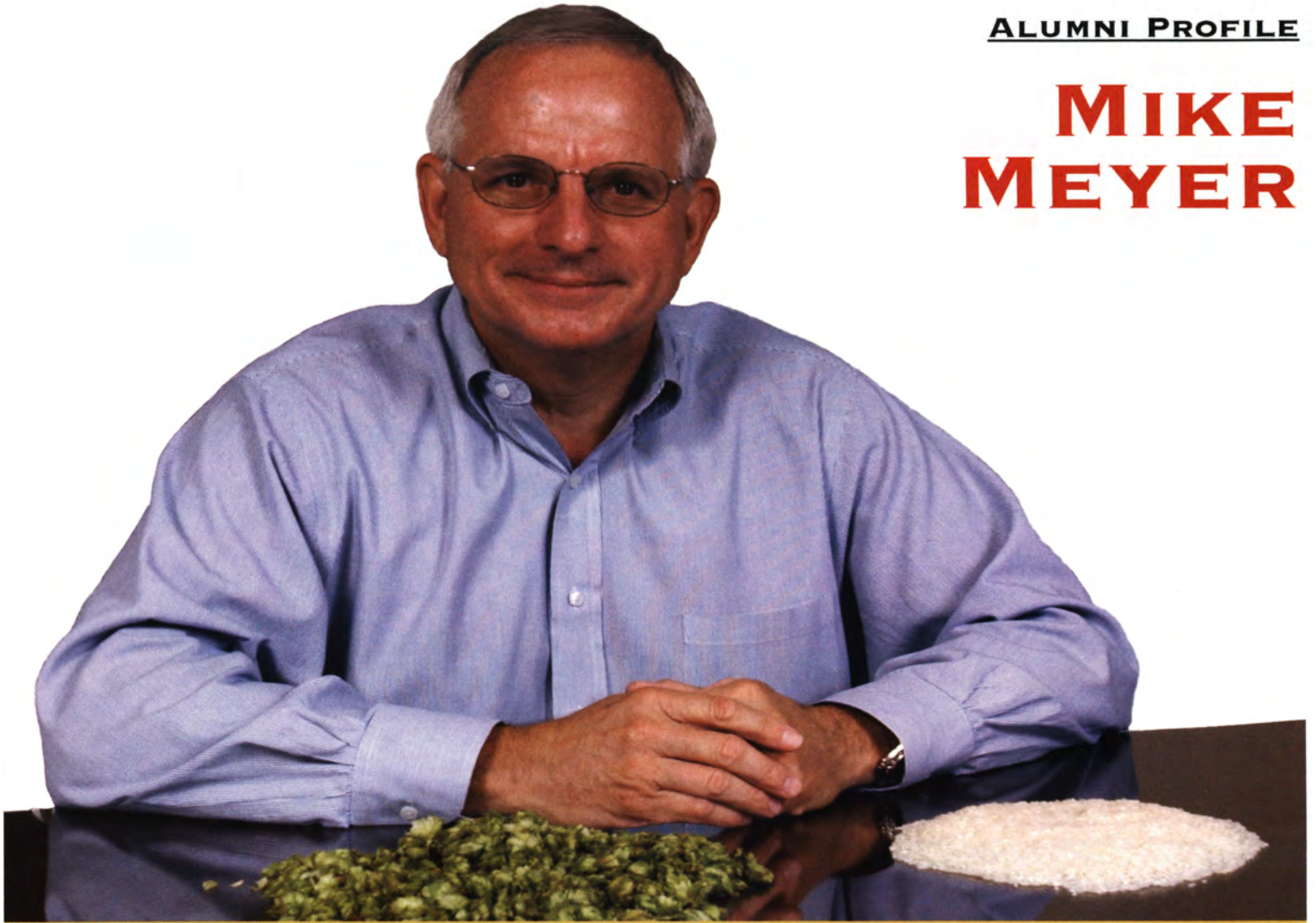
Frieda Roarig, wife of Wilbert A. Roarig, PetE'39, †Jan. 13, 2002

Sara P. Wharton, †Nov. 7, 2003

Ronald Wood, †Dec. 11, 2003

ALUMNI PROFILE

MIKE MEYER



Helping students improve their engineering, presentation and communications skills is a labor of love for Meyer, ME'75.

When he isn't in St. Louis equipping Anheuser-Busch's brewmasters with the tools they need "to make the best beer in the world," **Mike Meyer**, ME'75, can often be found back on campus, equipping students for success in the world of engineering design. Meyer works with teams of mechanical engineering students who design engineering systems as part of their capstone design course, Analysis and Synthesis in Engineering Design (ME 261).

Helping students improve their engineering, presentation and communications skills is a labor of love for Meyer, one of several members of UMR's Academy of Mechanical and Aerospace Engineers who return to campus to review the senior design projects. "I like talking to the students and offering some direction," says Meyer, senior director of brewing engineering for A-B Inc. "I get a great sense of personal satisfaction from helping the students."

Meyer has been on the academy's Senior Design Review Committee for the past five years. The group meets with ME 261 students twice during the semester — at mid-term and at finals —

to discuss the progress on their various design projects. But Meyer also pays close attention to students' presentation and communication styles, as well as their engineering work. "You need excellent communication skills to succeed in business," he says.

This year, Anheuser-Busch is sponsoring one of the design projects: a sanitary valve design for taking beer samples for quality testing. Three separate teams developed prototypes for the project, and Meyer hopes their work will be incorporated in A-B's standard designs. "This is an opportunity for students to make an impact on a real-world process," he says.

As a UMR volunteer, Meyer's impact extends beyond his work with the ME 261 course. He also arranges field trips of A-B's St. Louis facility for students, and as a member of the MSM-UMR Alumni Association's Public Resource Ambassadors, Meyer champions UMR's cause with Missouri legislators. "I think Rolla is tremendous," says Meyer. "I promote UMR every chance I get."



homecoming '04

Paradise Island

Turn to page 28 for a detailed list of activities.



UNIVERSITY OF MISSOURI-ROLLA